

FIGURE 1

AGTTTGTTAAAAATAATAATGCCAATAATATATGTTATTTTACGTATGTTTATACAGATGCAC
GCTTATTTATACTTATGTGTAAGTGAAATAAATGGCAAAAATGATACAAGGCATAGGAAGAAG
AAATTAGGATTATATGCTATGTAAGAAGCAGTATAGTGTTTTTTTGAAAATAGACTTGAATTAG
TTGGAAATCCATATTGAAAACNTTCGGGCAAACATTTTTAAAAAATAAAAAAATGATATGCTA
AGAAAGAAGAGAAAACGGAATTACACAAAATGNTCAATTAAAACCACAAAAGGAAGCAAAAGT
GTGGAAAACAAAAAGGGGAACAAAGAATAAGGCAACAAACAGAAAACAGTAACAAATATGGTA
AGCATTAATCCAACATATTAATAATCACTTTAAATATCAATGGTNTAAATATGTCAATTATA
AGACAGAGATTACCAGAGTGGACACATTATATAAGCT

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FIGURE 2

ACGTTGCGGGTTCGAGGTTAGGGCCCCGGAAGCCCGCAGTAATTNCACGTNTTCCCGCCCGNT
TCCGGCCCCCAGTGCCGCCCTTCGCGGGCCGGAGGCGCGAGTCTGGGCTTTGGCGCCTTCGC
AGCCGCAGGCGACATCCTCTTTCCTAGCTAAAGCCCCAAACGCCCAGGTGGCTTCCTGGGAGA
GCACGGCTGAGCCTCCGCCCTTCAGATCAGAACAGGCAGAGCCTCCAAGGGCGGCTTGGGCCCCA
GTGCCTGCTTATCCTGCCCCGTCTCTCCACACTTCTTCTTCCCTGTCCGTTGGAGTCCATTCC
TTCCTGGAAAAGCCAAAGCCGCGCTCCCCTAAGAGTCATGTGTTACTGGATTAATTGAAATTC
TTGATAGGTAAACAGAGTTTTATCATCAGCTTATGATTGCCTATGACTAGCTCAAAGTTAAGTT
TTAATAAACTAGTAAGTACAATAAACCTCATTCCTAAATACAAGGAAAAGAACTATATAATGA
ATACTTGTCTCTATGCCCCCTCTCGCATAGATAACAATAATTTAGGTTTACCTTTAAATGAACT
GCATTTAAATGAAATTAATTTAAATGATTGTTTCACGGCACAGTTTCATCAATGGTCTACGGT
ATCCCTTATTTATGTATACATCAGTTTGTATACATCTGTATCTATGTATTTG

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FIGURE 3

NAGAANGGAAGNGAAGGAGGAAGAGGNGNNNAAGAGGGAGGGGAAAAGNGGGANGGNGNAGNNG
AGNANGGNGGNGGANNNNAGGNNGNAGNAGGNCCNAGANGGNAAGNGNTTGNAAGAAAGGGAN
NGCCNGGTAAAANAGNACCNNCCCAAGAAGNGATTANGGNGGNTTCCTNGNTGAAGGNTGTGG
ATCCCANNTNTTTCCTGGGANTTATNGNTNGGNAACAANATTTCNANGNGNNACNNAGGCAAA
CAATNAANTTNCCAAGGTNTTGGTAGNATTTCCCNCGGXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXNGATNTNGGGGTTTNTCCCCTTTCCCCTTCCCCTTTCCCCACCCCGGG
GGTTCNGGTTGGTNAAGAAAAAAAAAAAAAAAAAAGAATTNTGGCGCGGCCTCGGCGGAGNTGG
TGATCGGCTGGTGCATANTCGGCNTCTTACTACTGGNTATTTTGGCATTCTGCTGGANANATG
TTNGTAAATACCAAAGTCGGCGGGAAAGNGAAGTTGTTTCCACCATAACAGCAATTTNTTTTT
TAGCAATTGCANTTATCACNTCAGCACTTGNACCAGAGGAAATATTTTNGGTTTCTTACATGN
AAAATCAAAATGGTACATTTAAGGANTGGGNTAATGNTAANGTCAGCAGACAGNTTGAGGACA
CTGTATTANACGGTTACTATACTTTATATTCTGTTATATTGTTCTGTGTGTTNTTCTGGATCC
CTTTTGTCTACTTATATTATGAAGAAAAGGATGATGATGATACTAGTAGATGTANTCAAATTA
AAACXXXXXXXXXXXXX

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FIGURE 4

AGTTTGTAAAAATAATAATGCCAATAATATATGTTATTTAACGTATGTTTATAACAGATGCA
CGCTTATTTATACTTATGTGTAAGTGAAATAAATGGCAAAAATGATACAAGGCATAGGAAGAA
GAAATTAGGATTATATGCTATGTAAGAAGCAGTATAGTGTTTTTTGAAAATAGANTTGAATTA
GTTGGAAATCCATATTGAAAACNTNCGGGCAAACATTTTTAAAAAATAAAAAAATGATATGNT
AAGAAAGAAGAGAAAACGGAATTACACAAAATGCTCAATTTAAACCAACAAAAGGAAGCAAAAG
TGTGGAAAACAAAAAGGGGNACAAAGAATNNGGCNACAAACNGCAAACAGTAACAATTNTGGT
AANCATTANTCCAATTATANTTNCNATTACTCTAAATATCAATGTTTTNAATATGTCTATTGT
NAGACNGAGNTTACCAGAGAGNACACATTATATAAGGTCNGANGNGTNGG

FIGURE 5

TTCNTTGTCAANNGTTTTTGGTTCCCCCTTNTTTCNCGGNTTNNTNTTTNGGAANAAAAATTT
NAAGNTATACCAAGNAAAAAATTAAATCCAAGNATTGGATTGAATCCCNGGGGATCTTNA
GAGATCCCTTNGACTTTGACCNAAGGGTCCGGCTTTAGGGGAAGAAGTTGGTGTTTNGNTGGG
CCCTGGTACTGAAGACGCGTTCCGGGTAGCCCAAAGANGTTTCNTANTNACCCAAAGCCCCGC
ACCCGCCCTTTTNTNTNTTTTTCTTNTGGCAGGATGAGGCGTGCAGGCCTGGGTGAAGGAGTACT
TCCTGGNAANTATGGGAANTATGGNTATGNTAATAGTGGGTATAGTGCCTGTGAAGAAGAAAA
TGAGAGGCTCACTGAAAGTTTGAGAAGCAAAGTAACTGNTATAAAATNTNTTTCCCATTTGAAA
TAGGCCATGAAGTTAAAACCCAGAATAAATNANNAGCGGANNGGATTAAAAAGACGANTNNA
CAACNNTGATTTTGTANGTATAACTATGGGCATAANTGNAGATTTTTTCCAGANGGAGCTAAA
CAAAGATGTTGTGAGATATGNNGAGGNTATNATTAATTNTCAAGTTTGNTCACATAGGCGAGC
NTNAAAC

FIGURE 6

CCCCTTTTTCCNNGGTTTTTTTTTTNGGAAAAAAATTTTCAGGGGTANCCNNGGNAAAATTTAAA
NTCCAGGGTTTGGGGGGATTTCCTCCGGGTNCTTTTGGAGTTCCTTTGGACCTGNAACAAAGG
GTTGGAANTAAAANAAAAATTAAAAANCNNGGTTTTTNGGGGAAANTTNANAATGNGNTTGGG
GNCAAGAAAAATGGGTTTTTNGGGAGGGNAANGNNGGTTTATTCCAAATNGNAGGGGGGNAA
AAATTTNAGGCTTNNGGGGNAGGNGGAAAAAAATTTTCGTAGCCTCNAGGTTGNNATTTTTAAA
CCTNCAGAAGGTGGCCAGCCCCGNNTCANCNGNTGATNAAGGCAGATGGGAAAAGGGGGATAT
GGGGTNATAAGGGTACCTNTCACCCTTTTNGAAGGAAAAAAAGTGGTCCACAGNATTTTTGTT
TACCCAAGGGTAANANATGGAATTTTGTNGAANATAGGNGAATGGTGAGGCATTTGGAAANAN
GGGGGGGGGTTTTTNTTGAANGGGGGAGTAGGGGTATGGTATTTTATGGGAAAANAGTTTTTT
GGCACTAAACCNTTTTGAATTACCTAATANATTTATGTGGAAACCTGTCCTTTTTTTTNCAGNT
NAANAAAAATTTTTNCCCNTGAAANTNATTTTGTAGNAAGNATATNAAAAGNATTTTTTTTTTC
AAGNGTCAGAAACCTTTTAGCATCATTGAAGTTAAAATGACTGTCCATAAACTTTTCAGAAAT
AGTAGGCATTTNAGGCNACNAGATTTGTANANGGNATNTTCATAGAATTATACCAGTGANTTN
ACCACCTGAANCCTCTTGGATCCCGTAAGCATTCTTTGCNACAAGGAAGGGAGGTATNCNGGG
TAANTCCTTGAANTTTTGGACNGGAACNATNACTTNGAATTTNAXXXXXXXXXXXXXXXXXXXN
NGCCGCNNGGNCNTTTTNTCGNGNN

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FIGURE 7

NGNTTNGTTCCCTTTTTTCCCNGGTTTTNTTTTTTGGNAAAAAATTTNAGGNTTAACCCAGG
NAAANATTAAATTCCAAGGNTTTGGNNNGAATTCCCCGGGGGTTNCTTTTAGGGGTTCCCTTT
GACNTTGAACCAAAGGTTTCNGGCCNGGAGGGGGGGGGGACCGGTTTTTTCCCCCNGCGTTTC
CCCCGGGGNTGGGGGTTGGGGNGCCCATTTGNNGAAGTNAGTGGGGAGGNGGANTGGGAACCC
GGNAGTTTTTGGAGAAAGGNAGGTTCCCTTCCTTAACCCTGGGGGTTCCNGGNGCCCNNGGAGNG
GCAGTTNGGGGAATANTGTTTNAGNGGTTNGGGGGGTTTTCTTNGGGTCCCGCCAAGGGGGNG
GTNCTTNATAAAAGGGTGCCTTTTTCCCCACAGNTTCCAGGTGAGAGAGGAGCCGCACCGTCG
GGTTGGAGATNGCGCGCAAGGNGGCTTNTGGTTNGGATTTGCCCCGCATCGGCCACAGGAAAA
GCCTGGTCCCTAGGCACGGTTGTGGTTCGAGCTTTTNGTTTTNTCGAACATTGAGGTATTTCGC
TCAGCCCACCACGTTGTCNTCGGGGTATTAGGCCCCAGTCACAAGCCCTATGATGTTTTTCAG
ACTTCCCAGGTGGAGATAAGGAAAATTTACTATTTCTGCAGAACTTCTGTTGATGTACAGCA
TTGTATTTAGCAACTTCTGTGTAGATCTGAAAATAAATACATTACCAATTGTTAGTTGCGTTT
TTATTAATATAATTTTAGAGNAGNNGANNNGNTGTTAGACNTACNNAGGTAAATTATGTGGC
ACTTTNGCATTNTTGTGTGNTNCATGTTCCCCTGNANTTTGCTTNGNGATTTCNATTTATTCCA
AANTCANNATAGAATGTAATTTCCNAACCCACAGTCCGXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXNN

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FIGURE 8

GGANNNGNTTNCAAAATGGGATTTTTTAACCAAANTANGGNAGAGAAAAGTTTAAGTGTTTTGC
CAAAAAAATTCCAAGGAAAATAANGCGGAGTTTGATTTTTTCAGAGTTCAACAGGAAAAANGNG
AACAAANNGCCNGGAGNTTNNAAAGTTTTGGGAAAGCCANTTTTNATNTGTTCAAGGAACAGT
TTTTATTTGNGATGCCAATCAGAATTTTGGACCCAGTATAATCAAGGTCAGANTTTCAACCTA
AGCCTGGACCNGACCCATAATAACGGAAAGTTTAACAATGACTCACAT'TNTCNTAAAGTTTCC
AGCCAGAATAGGACACGNTCATT'TGGTCATTTTCCCGGTCCAGAGTTNTTGGATGTAGAGAAA
ANTAGCTTTTCCCAGGAACAATTTTGTGATTCCGCAGGAGAAGGNTNTGAAAGAATACATCAA
GATTTTGAATTTGGTGATGAANTTAGCAGCAGCTCCACTGAACAGATAAGGGCAACCACACCT
CCAAATCAAGGAAGGCCAGATTNTCCTGTNTATGNTAACCTTNNAGAANTGNAAATNTCCCAG
TATGGTCTTCCCCCANTTCTTGGGAGCCTGGTAATTNAGNTTATTGGNGCNTGNGANACTNAT
ATAGACANCTNNNGGNGNTGTTANNATNANCACAGNGGGACATNGNATNGAAGTTGGNNACCT
CTTGCTTGGANTCGGGNXXXXXXXXXXXXXXXXXCNCCGCNGGGNCNTTTNTNGNGNN

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AGTTTGTAAATAATAATGCCAATAATATATGTTATTTTACGTATGTTTATACAGATGCAC
GCTTATTTATACTTATGTGTAAGTGAAATAAATGGCAAAATGATACAAGGCATAGGAAGAAG
AAATTAGGATTATATGCTATGTAAGAAGCAGTATAGTGTTTTTTGAAAATAGACTTGAATTAG
TTGGAAATCCATATTGAAAACCTCTCGGGCAAACATTTTTTAAAAAATAAAAAATGATATGCTA
AGAAAGAAGAGAAAACGGAATTACACAAAATGCTCAATTAAAACCACAAAAGGAAGCAAAAGT
GTGGAAAACAAAAGGGGAACAAAGAATAAGGCAACAAACAGAAAACAGTAACAAATATGGTA
AGCATTAATCCAACTATATTAATAATCACTTTAAATATCAATGGTCTAAATATGTCAATTATA
AGACAGAGATTACCAGAGTGGACACATTATATAAGCT

TTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTTACCCAGGCGGAGTGCAGTGGCCA
TGATCTCGGCTCACTGCACTCCAGCCNGGATGACAGAATGAGACTCTGTCTCCAAAAATAAAA
TAAAATAAAATAAAAAGTGATATGAACATAAAAGTACCTTAGGTCCAAACAATGATAACAATA
ATATTTATTGGGCGCTTACTGTGGTATGCATTGTGTTAAGCATTTACATGTATTTACTCATTT
TAATCCTCACAACCATCCTAAAAGGTC

FIGURE 11

[illegible]

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FIGURE 12

CGGAATTACTGTTCCAGCCGGCTCGGGTGGTTTTTCCTTGCGTTCCCGCCACGNGGCGGCTCNT
CACTAAAAGGCTGCCCTTCTCCCCCACAGCTCCAGGTCCCNAGAGNNGCCGCACCGTCGGGTT
GGAGATCNCGCTCAAGGGTGNCCTCTGGGTCTNCATCTGCCCCNNCATCGGCCACAGGAAAAG
CCCTGGTCCCCTAGGCACGNTCGTGGTTCGAGCTTTTCGTTCTCTCGCACATTGAGGTATTCG
CTCAGCCCACCACGTTGTCCCTNCGGGGTTATTAGGCCCCAGTCACAAGCCNTATGGATGTTT
TCCAGACTTCCCAGGTGGAGATAAGGAAAATTTTACTATTTCTGCAGAACTTCTGTTGATGTA
CAGCCATTGTATTTAGCAACTTCGTGTAGATCTGAAAATAAATACATTACCAATTGTTAGTTG
CGTTTTTTATTAATATAAATCTTAGAGTACTTGATTTTGCTGTTAGCTTTACTTAGGTAAATTA
TGTGGCACTCTAGCATTTTTGTGTTGCATGTTCCATTGAACTTTGCTCTGTGTTTTCCATTT
ATTCCAAATTCAAATAGACTGTAACCTCCCAATTTATTCTATGTTCC

CGGAATTACTGTTCCAGCCGGCTCGGGTGGTTTTTCCTTGCGTTCCCGCCACGNGGCGGCTCNT

FIGURE 13

AACGGACATAGCTCAGAGGGGTTAAGTGATCAGTGCAGGTTACATAACTAAGTAATGACACA
GATGGGACCTGAACCTGGGTCTCAGGAGGCTCTGGTCCCTGGCCAAACTATGTGACTATGTAC
ATCCACCTGGTTTCTGCTCATGGGTTAGTGTGTGACAGGAACATTCCATGATGGCTGCAGCCT
CCATCCCAGGGGCACTTGGAGAAGCCATTCCACTCAGCCCCCTTGACCAGAAGAACCCTTGGG
ATGGAAAAGGGAATCCTGATTCTGCAACTACGTGCTCCCATGAGATCTGATTTTCAGCCAGGG
CTGATCCGTGGCTGCCAGCAAGGAAGCCACATCATCTCATTGTTACTAGACTGGCCCGGCTGA
AAGATTAGACAACAACGTTTACTTTGCCATTAGCCCTGCCTGGCACTCAGTATGGTATTGCCT
GGCTTTCAGGGGCACTGGTTACAGTGTCTCCGATGCAGGGCAGCCCCTGCCAAGGGCACAGGT
GTTTCATAAATATTCCATGAACCAATCAAATCAGCCATGGAATGAGATCTAAGGAACCTATTCTN
CGGCAAGCCTGAGACGAACACTTAAGCATGATAATGTTATCAACCTGGTCTGATAGGCATTGG
GGCACTGGTCCCTCGCATTTTCAATCAGGGTCTCACCCAGGGACNGATCTCCAACACCAAAAA
AACTTGGTTTTTCCATNCCATTCCAAACTGGGCTCTCCNCCAAATGCCCTTAGGGCATTGGG
GGCAAGCTGGTCCCCTTGGCAGGTTTTTTCATTGAGGTTCTCACCCCCGGGGGACCGGGGAT
CTTCCAACACCNNGGGGAACCTTGTGTTTTTCCACTCCCCAGTCCCAGACGTGGGCTGCTTCT
CCAGAGATGCCCGCAGGTTTTTAAAAGTTAAATTGATGATAACTTTTTTGGCTCAAGTATAGAA
GTAATACATTATCCATTGTAGATTATTTATAGGTAAATAAAATTTTTTAAATGACTTTTAACC
CCACTACCCAGAACTAACCACCACTGGNGGTAGTAAATGAATATATTGATTTACTTACAAATA
TAGGACCACAAGATATGGCACATGTTTTGCAACCAACCTGTTTTGATAGGCCCAGCTTGCTTC
TGCTGCGCTACTTTATTTGCAACCCAAACCCGCTTTTAAAAGAAAAATCATGGTCTTGTATTT
TACAAGTGAT

FIGURE 14

ATCGATTATAAAAGCAGAAATTTACCTGGCTGCCCCACCCAATTTAGTTTTCTCTAAGAG
TTAGCCACTATTATCCCTTCAGAGTGGATATTCAGGCTTTTCTTTCTGGCATGGACATACAT
ATGTAAATGTACATATATAAAAATAATTAGTGACACCATGCATGGTAGCTCACGCCTGTAATC
CCAGCACTTTGGGACGCTGAGGTGAGAGAATTGCTTGAGGCCATCAGTTTGAAGCTGCAGTGA
TCTATGATTGTGCCTCTACACTCCAGCCTGGGTGACAGGGTGAGACCCTGTCTCTTAAAAAAA
AATTCGTATTTGGGGTTAGTAGTAGTACCTACCTCATAGGTTATTATGGGATCAGTACAGTAG
GCCAGACAAAGTGCGTATGCTATTATTTTGCATGTAGTAAGTACCAGCATATACTACCTGTTA
TCCAGAAATTTGCTGAAATGTCCCTTGATTTTCTCTCTTTTCGATTTTGATCAGTCTTCCTAG
AAGTCATCAGTTTGAGTTTTTTCAAAGAACCAGTGGTTGGTTTAATGNATTTGGTTTGTTTTT
TTTTCCAANGATTTCTGCTTTACTCCTTAATAATTCCCTTTTCTGCTGGCTTTGGGTTCATT
TGTTCTTCTGTCTCTTCTAGTTTCTTAAGGTAAAGGCTTAGATCATTGACTTCAGATTTTTTG
TCTTTTCTAACAAGTGTTCAAACTATAATATAAATTTCCCTCTAAGCATTGTTTAGCCACAT
TTCACAAATTTGGAAATGTTTATTCATTTTCAC

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TTTTTATTAATTTTATTTTTTTTTTAATACAGATTTTCCAGTGAGGGGCTTTTTCAACCCCATT
GGTTCtATTTTCTTGtATTTTCCATTTAATTTGCTTCATAACTTAAACCAAGTCTCTTCTAG
TCTTAGGTATTATTTCTCGATTTTGTGCTGATGGGCATGTTTATAAGAACTGGAGAGGTGATT
TATTGGAATGAACTAACTGACTTCCTCCATTCCCCTCTTCCTTTTTGACATGAATTTTACTAC
TTCACAAATGAAGAATGATGTTATGAAGTTACCGTGGCAAAG

CCCACGCGCCGCTAACCCAATGTTCTTTTTTAGAATTTTCAGGTTGTGGCATCCACTGAGTATG
CAGCTACTATGGTTTTTGTATGGGACGTATAAATACTTGATTATATACGACAGATTTTAATGT
CTTTAAAGACTTCCTGCTGTATTAAACATATTGTAATGGAGTCTTTTAAATACTAGGTTGAATT
TAATTGAAGTCACACACATCTTGAAGTGGTAACTGCATAGTAAATACTACCAAGAGTTTTTTT
CACGTGGGAGTATCCTAAAACCTCTGCCATGGGTGTAAATGTTTTACATTAATTTTCATAAFTGG
ACAGACCCTGCATTTAGCGAAAACATTTTGTFTTGAAAAGTGTGTTCTTTTTGTCTGCACTGTTA
CTGCGTAACACTTCTCAACATTCTGTAAGTTAAATTATTTTAAAATAACTATGGTGAATTCAT
GTTTATTTTTTTTTTACTTTGAAAAATTGTAGTACTCAGGTGGTATTTAATGGGAAAGGATCCTT
TGGGTATAAA

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FIGURE 17

AATGTCCTTTTTTAGGAATTCAGGTTNTGGCATCCACGGGGGTTGCCGCCTACTANGGNTTT
TGTAAGGGGACCGTATAAAATAACTGGATTATATNCGACAGATTTTTAATGTCTTTAAAGACTT
CCTGCTGTATTAAACATATTGTAATGGATCTTTTAAATACTAGGTTGAATTTAATTGAAGTCAC
ACACATCTTGAAGTGGTAACTGCATAGTAAATACTACCAAGAGTTTTTTTTCACGTGGGAGTAT
CCTAAAACTCTGCCATGGGTGTAAATGTTTTACATTAATTTTATAATTGGACAGACCCTGCAT
TTAGCGAAAACATTTTGTGTTTGAAGTGTGTTCTTTTGTGCGCACTGTTACTGCGTAACACTT
CTCAACATTCTGTAAGTTAAATTATTTTAAAATAACTATGGTGAATTCATGTTTATTTTTTTT
TACTTTGAAAATTGTAGTACTCAGGTGGTATTTAATGGGAAAGGATCCTTTGGGTATAAA

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FIGURE 18

[illegible]

FIGURE 19

TGGGGCCCCCAACCCGGCNGGTATCCAAGGAAAAAATTTTTATTATGGGGTTCCNGGA
ACTATTTGGGNCCTATGGAAATAGCCCTTAAAGNGCTTACATTCATGNGCTACTTTAACATGA
ATGGAGAAAATCCGTTTATGGAAGTACAGTGACAATTGNCCCAATCACTCTGTCCATCAAACC
ACTCAGGCTAGTTTGTACNAGTAGAGTTTGN TTCNANTTTTATTTTTATTAATTTTATTTTT
TTTTTAATACAGATTTTCAGTGAGGGGCTTTTTCAACCCCATTTGGTTCTATTTTCTTGATTT
TTCCATTTAATTTGCTTCATAACTTAAACCAAGTCTCTTCNAGTCTTAGGTATTANTTCTCGA
TTTTGTGCTGATGGGCATGNTTATAAGAACTGGAGAGGTAATTTATTGGAATGAACTAACTGA
CTTCCTCCATTCCCCTCTTCCTTTTTGACATGAATTTTACTACTTCACAAATGAAGAATGATG
TTATGAAGTTACCGTGGCAAAG

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FIGURE 20

CAGCTCCGGAAGACTATGCACCCAAGCACCAAACCTTCANCCAGAGAGAGAGACGTCCTCCGA
TAACAAAAATCCTTGCTTCCTCTGTCTGTGACTTTACACNCAGTTGTTCAAAGTTGTTAAANG
NCAAGAGTCAATCACATCCCTAGGACTACCTCCCAACTCTCCTGACTCTTATGTTATTGAAAA
AACAAACAAACAAANACTCCTTTATGATGNTATTCAACTTGAGTGGGGTTTTTTTTTCCACTT
TGGTCCTGGATATAATGAAATGATACATATTAGGATAAATTTTCACTGTGTATAGTAGCAATA
CGAACACACATGCCAATGTATCAACATATCTACTTGGTTACATTTTGGTTTATGATAATCGANN

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FIGURE 21

TGGAATAACTGGAAATTTATTGGATCCAGGTTCCACATTGGCAGTTTGGAAACTACTACCAA
AAGATTTACCAATTTACAACCTCATCATTAGTAAGAANGCCTGTTTGCCTATAGTCTGCCAA
CCTGAACCCCTTAAAAATTTTGGCAANCTGGTAGGCAAAANTCTTTCTTTTCTTTGAATATTA
ATGAGGAGGAACATCTTTTCATGTTTCTTGGCCATTTGCANTTCCTATTATGAATTGCTTCNG
GCCCATTTTCCTTTTTTTAATTATGAAAGTCTAATGACTACCTTCTCATTGTATAAAAAACAC
AGTTCTTTGAATAGAGAGACCCTTTTCTCCAATGCTACCAATCACATTCCACTTACCACAGTT
TAACATACATCCTCTAGTCACCTTTCCCGA

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FIGURE 22

TAGGGTCCTATTGGTTGCCTAAGCATACTTNTTAACTTGTGCCATTGGCCCTTACTTTTATGGA
AGTTTTTCAGGAACTATTTTATANCATCTAGTTATTTAGTCTACGTATCTCTATTTAGTGGAG
CCTTTTCCCCTCAAATAATATATTTTATCATTTTTTGGACTTATATAAANCATAATTAAATAAA
TTTTTTCTTAATACTGTTGGACTTTGTATATACAAGTTCAGATAACTTTTTCGAAGATAGTTT
CTTATATAAANGTAATTTAATTTTTTTTACTCTTCTATACAGTTNNTTAGATGTAAAGGAATT
AGCACAATCTCTGGCAGTTTTATAAAAGCTGTTGAAGCTCTTGTCCTGCACTGTCTTTAGGTA
TCATAGGTATCAGGTTTGCTTTGTGTTAATGCCACTTCAAGTCATTATTTGGTTTCTGCTATT
TTTTTACCTGAG

FIGURE 23

ATACATATATATGTGTGTGTGTGTGTGTGTGTGTGTGTATGTATANATNTAATCATTTACACTCTTT
TGGGGGTCAAGAATTTGAATGAAGAAAAACAAATCCAATTAATTTTGGCTTCCAGTTACTTCT
GATAAAATCAGTGAAGGTTCTTGGATTTTGAAATCTCAGTTGTGCATTGCTTTTTTTTAGATCC
TGCCAGGTTACNNTTTTTTAAATAACATGTACAAATTCATCTTTTTCAGTATAGACTATTGTA
AGTTTTTGGAAATTGTTATAGTCATAGAACCATGATCACTAACAAGATATATTCCCCCACTCC
AAAGTCCTATGTGTTCTTTTTGTAGTTAACCTGTCACCCAC

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FIGURE 24

ACCCTTGACCCAACGCGGCCCCCGACCGNTTCATGGCCAAACGCGGGNCTCCAGCTGTTGGG
CTTCATTCTCCCCTTCCTGGGATGGACCGGCGCCCATCNTCAGCACTGCCCTGCCCCAGTGGA
GGATTTACTCCTATNCCGGCNACAACATCGTGACCGCCCAGGCCNTGTACGAGGGGCTGTGGA
TGTCCCTGCGTGTGCGCAGAGCACCGGGCAGATCCAGTGCAAAGTCTTTGACTCCCTTGCTGAAT
CTGAGCAGCACATTGCAAGCAACCCGTGCCTTGATGGTGGTTGGCATCCTCCTGGGAGTGATA
GCAATCTTNNTGGCCACCGTTGTNNNTGAAGTGTATGAAGTGCTTGGAAGACGATGAGGTGCA
GAAGATGAGGATGGCTGTCAATTGGGGGCGCGATATTTCTTCTTGCAAGGTCTGGCTATTTTAGT
TGCCACAGCATGGTATGGCAATAGAATCGTTCAAGAATTCTATGACCCTATGACCGA

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FIGURE 25

TTTTCTTTTTCTCTTTTTTAAATTACCTTTGTTTTGCGGTAAGGAGTTGGGGAATTTGTGGT
GGCAGGGAAGTAATGTAAGTTGCTTTATAACTCACTGTCTAACAAAGTTTTGAAAATTTGTCT
GATATGTAATTAGGTACTTTAGGGTTATTAGGTTTTTCATAAAAATTCTGGTTAGGGCTCTTGC
CCTGCTCCCAATGAAAGCCTTTCCACAGGGCAAATATAAAAGAGAGAGTAGAGGGAATCCCCC
TGAGGTTTAAATAAGTCAAACCAGTAAGTAATAGTGCTAAGTTTGTGAGTGNCCTCTCTTTCT
TACTGTACTTAACATCTAAAGGGCACCTCATTTATTTTCAGCTAATTATGTTCTTTATGAGTG
ACTGTCAAATCAGGGAAGGGTGTGACGATCATGTGGAGATACCTTTTCTAATTAATAGCTGCC
TTGCTCCTCAAGATTCTGACGAACC

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FIGURE 26

CTTCTTGACACTGCCCTTTCCCTTCCCCCNTCCCANCTGCCCGACCCATGCCCGCGGGCGTG
CCCANGTCCCACCNACTTGAAAAATGTTTCGCCAGCCAGTCTCCTTGGCCCATGTNCGCAGGG
GCAGAAAGTGGTGCCACAGGTACTACCGACCGGACCTGACAATACCTGAAATTTCCCACCAAAGC
GTGGAGAACTCAAAACGGAGCTTTTGGGACTGAAAGAAAGAAAAACNAAACCTCAAGTNTNNN
CAACAGGAGGAACTTAAATACTACGTCCAAGAATTCTGTGAATAATATAAGTCTTAAATATG
TATTTCTTAATTTATTGCATCAAACCTACTTGTCTTAAGCACTTAGTCTAATGCTAACTGCAA
GAGGAGGTGCTCAGTGGATGTTTAGCCGCGA

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FIGURE 27

CGTGAAACACCCCTTTATTTCTTCATAACTACTCANTATGNCTATTTCTTCACCAGATGNA
AGCTCCTGAGCTCAGNCNCTGACTGTCTTTTCAACACTGACTAGTACATAACAGGCACCCAA
TANTTNNTTAATTGTGGTAAAATATACATAACAAAGTTACCATTTTAAGNATNTAATTCAGCA
GCGTTACATACATTCAAATTGTTGTGCAACCATCACCACNNTCCATCTCCGGAACCTTTNTATC
TTCCCAAGCTAAGGCTCTTGGCCATTAAACAATAACTTCTAATTGCACCCTTCCCTGTCCAC
CCTGGTGACCATCATTCTGCACTCTATGAATTTGGCTACTTTATGTCCCCCAAATAAGTNGAA
TCATACCGACCC

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FIGURE 28

TGGCATGTGGGCCCATTTCAGTTTCCCTACATGTTCCCAAANTTATTTAAATTACTGTGTCC
AAAATTATGAGGACAGTGTCATTCATTCACCATAGTTTATANTCTTAGTTANATATCAAACCTT
CCTTGGCACCTAGGATAAGAACATTTCTTTTGAAGTTATCCAATTTTTTTTTTATTTTTACTTG
ACTTGAAGGAAAGTTGGAAAATATGGTGGAAAAAATCTTCCGCATTAAAAGGGTCNNTAAAC
ACAACCATTTACGATCTCAGTCAGCAGATTTACTCTACTCAAGGAAAAAAGAAACAATCTTA
TTGGAAGCAGATGTTGACACTGTGTGAGTTATTGAAGACGGAAGGAGTTCACTTGAGCCATTG
CAGTTACAAAGGGGTATTGATCGA

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FIGURE 29

TCTGCCCCCTGAAATATACAAGGGTCATGCCCAAATTAANACAGGTTNACCTTTGTAGAGGTAA
ATATGTTGGCATTATTTATTGACATTTATGCTTCAAGCATGTCTTATTNTATGTAATTTTAAG
AAATACTNTATTTAANTNGTGANATATACCTAAAAGCATACTAGTTAGCTNTTAGANTCTCAC
TTAGGGAGGGTAAAGAAACATCACTGATGCCAATATGAAGATTTNTAAACAAATCCTTTGTNT
AGAANTTTTTTCTTTTCGTGCACCTCACAACACANTTACCATCGNACC

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FIGURE 30

GGCCGGTTCTTTTAAGATCTTTGACCTGANCCAAAGTTTCGGGGAAGGGGGGGTTGCCCAGGT
GGAGTG CATGGGGGATTTTGGNTTAATGCAAGTTCCCCTTCCNGTGTTAANGCCATTTTCCTG
CTTCAGCTTTTTTTGAGTAGNTGGAAANACAGGCGCCCGCCAANACACCTGGNTAATTTTTTGT
ATTTTCAGTAGAGACGGGGTTTCACCGTGGTTTCAATNTCCNGACNTTGTGATCCGCCCCGCCT
NGGNTTGCCAAAGTGNTGGGATTATAAGCGTGAGCCACCGCGCCCGGCCGAGATGTTTTGATA
CAGGCATGCAATGTGAAATAATCAGATNATAGACAATGAGGTATCCATCCCCTCGAANTTTTA
TCCTTTGTGTTACTAACAATCCCGTGAACACTTTTTTAGTTATTTTAAAATGTATAATTAGTT
ANTACTGACTATAGTCAACCGTGTTATGCTGTCAAATAATAGATNTTATTCATTCTTACTGTT
TTTTTTGTACTCATTAACTGTTCTCANCGCCGAACC

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FIGURE 31

GTTTTTTTTTTTTGAAGCGAACTTTTGCTATATTGCTAAGGCTAGTTTTGAACTCNTGGGNTC
AAGCAATACTGCCTTGACCTCCTAAAGTGCTTGGATTACAGGCATGAGNTACTGCGCCTGGCC
TGCAATATGTATTTTAAGCTACTTTTTTTNTTATTCCGNACC

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FIGURE 32

TGTCGACGCGAATGCCCCGCGGGCGGAGAACTGGGCTCCCACCGAGGAGGCTGGAGGCAGGTT
CGCTGTGGTTCCCCCTCCCGACCTGGCAGAGCTGNCGGGAGCTCTCTGAGGTCCNTCGAGAGT
ACCGGAAGGAGCACCAGACTACGTGTTCCCTGCTCTTCTGCGGCGCCTACCTCTACAAACAGG
GCTTTGCCATCCCCGGCTCCAGCTTCCTGAAGTTTTAGCTGGTGCCCTTGTTTGGGCCCATGG
CTGGGGCTTCTGCTGTGCTGTGTGTTGACCTCGGTGGGTGCCACATGCTGCTACCTGCTCTCC
AGTATTTTTGGCAAACAGTTGGTGGTGTCTACTTTCTGATAAAGTGGCCCTGCTGCAGAGA
AAGGTGGAGGAGAACAGAAACAGCTTGTTTTTTTTCTTATTGTTTTTGAGACTTTTCCCCATG
ACACCAAACGGTTCTTGAACCTCTCGGCCCAATTCTGAACATTCCCATCGTGCAGTTCTTN
TTCTCAGTNCTTATCGGTTTGATCCCCGGA

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FIGURE 33

AAAAAAAAAAAAAACTGCCTTTCTTCCCCTCAGTCAACTTTTGTGCTCCAGAAAATTTTCTAT
TCTGTAAGTCTGAGCGTAAACTTCAGTATTAAATAATTTGTACATGTAGAGAGAAAAATGA
CTTTTTCAAAAATATACAGGGGCAGCTGCCAAATTGATGTATTATATATTGTGGTTTCTGTTT
CTTGAAAGAATTTTTTTCGTTATTTTTACATCTAACAAGTAAAAAATTAAAAAGAGGGTAA
GAAACGATTCCGGTGGGATGATTTTAACATGCAAATGTCCCTGGGGGTTTCTTCTTTGCTTG
CTTTCTTCCTCCTTACCCTACCCCCACTCACACACACACACAC

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FIGURE 34

ACCCGGCATTAGGGAGGCGAGGTGNGCAATGTCTTAACCCCGGGCTCAACCAGTCCTCCGGCT
TCTGCTTCCCAAGGTGTNGGGATTGCCAGGCTGGAGCCCATTTGNGCCAGTCTATTGTATAGT
TTTAAAAAACAACCAAAAGGCTAATAAATGGCACCCCTTTGCAAGCTCTTCCCCCTCCCT
TTCTTTTTCCTTCCCAGTGTCTCCTACTTCTCTGACCTAGTTGACAGCATTATACTTTTGGAT
GTTGGTAGCATGTATAAAGTACATTATTACATAACAAGTTAATATAACATAATAGTTTCAAGG
GTTTTGCCACTTAATTATACTAAGTTACTTAACCTCTCAATNCCTTATCTGTAGATTTTGTTT
TTGATAGGGTGGGATAGTAATAGTAAGTACAAGGTTTCACAAGGTTGTGAAATTGAATGAGAA
ATACATGGCACTTTAACAAGTCACTATGGATTATTTAATTTCTTTTCTTCTTCTGCTGCT
GCTTCTCCC

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ACTATGGTAAATAGTTATACTGTATTGGTTTAGGAAATAATGGCCATTTTTTAAAAGTCTGTAC
ATGTTCAGTACAGACACAGTCTTTTTGAAGTATTTTTTATCCCTCCTTTGTTGAATCCCATGG
ATGCAGAACCATGGATATGAAGGGCTGACTATATTCTCACAGTTATATTCAAGTTGTATTTTG
AATGATTTTATGACAATCTTTTACCAAAGGGCCAACTGTATTCTCATGTTTATTATTCAAGTT
GTATGACAATTTTATATCAGCCCCCAGAGAGTTGGCATTGTTGGATTGAAATCATACTGAGTCT
CTAGATTAATTTAGGGAGAAGTGACATCTTTATAATTTTGAATCTTCCTATCCATGTATATGC
GAGTGTTTTGTATTTCAAGTGGCATTTCAAATTTCTTCAGGTAGGTCTCTTAGTGTTTATTC
CCGA

FIGURE 36

ATTCTCCCCCTCCTGGATGGATCGCNCCACCGTCACATTGCCTTCCCCCANTGGAGGATTNACT
CCTATGCTGGCGACAACATCGTGACCCCCCAGGCCATTTACCGAGGGGCTTTGGATGTCNTGC
NTGTCGCAGAGCACCGGGCAGATCCCAGTGCAAAGTCTTTGACTCCTTGCTGAATCTGAGCAG
CACATTGCAAGCAACCCGTGCCTTGATGGGGTTGGCATCCTCCTGGGAGTGATAGCAACCTTT
GTGGCCACCGTTGGCATGAAGTGTATGAAGTGCTTGGAAGACGATGAGGTGCCAGAAGATGAG
GATGGCTGTCATTGGGGGCGCGATATTTCTTGTTGCAGGTCTGGCTATTTTAGTNGCCACAGC
ATGGTATGGCAATAGANTNNTTCNNGNNNTCTATGACCCTATGACCCAGTCAATGCCAGGTA
CGAATTTGGTCAGGCTCTCTTCACTGGCTGGGCTGCTGCTTCTCTCTGCCTTCTGGGAGGTGC
CCTACTTTGCTGTTCCCTGTCCC

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FIGURE 37

TTTTTTTTCTTGTTTAAGCTGACTCTTTGCTCTAATTTTGGAAGGAAAGAAATGTGAAGGGTC
AACTCCCACGTATGTGGTTATCTGTGAAAGTTGCACAGCGTGGCTTTTCCTAAACTGGTGTTT
TTCCCCCGCATTTGGTGGATTTTTTATTATTATTCAAAAACATAACTGAGTTTTTTAAAAGAG
GAGAAAATTTATATCTGGGTAAAGTGTTCATATATATGGGTACTTTGTAATATCTAAAAA
CTTAGAAACGGAATGGAATCCTGCTCACAAAATCACTTTAAGATCTTTTCGAAGCTGTTAAT
TTTTCTTAGTGTTGTGGACACTGCAGACTTGTCCAGTGCTCCACGGCCTGTACGGACAC

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CCCAACTTGGAGGTGGAGACTATGGAGNTGATCGGATGGGCCCCGGGGCAGACTTTCCCCTTGG
NGCTGTTCTCGTGATAGTGAATAAGGCTCACCAGATCAGGTTTAAAAGTGTGTAGCCTCCCCA
TTCTCTCTCTTCCATCCAGCCATGTAAGACNTGCCTGCTTCCCCCTCACCTTCTGCCAGGG
TTGTAAGTTTTCTGAGGCCTCCCAGCCATGCTTCCCTGTACAGCCTGTAGAACCATGAGCCAA
TTAAACCTATTTTCTTTATAAATTATCCAGTCTCAGGCATTTCTTTATAGCAGTGTGAGAGTG
GACTAATAGAGCTAGTTATTAGTAGAGCCAAGATTTAAATTGAGCTTGCTGGCTCCCGAGTT
CTACTTTCTCAAACCCTATGTTAAGCTATTGTCCACAGCATTC AACATTGTTGAATTATCTTT
GTCAACTAACCTTGGAAGTCTTAAATTTTGTCCTAATCCTGTCCCCCTATTCC

FIGURE 39

TTTTTTTTTTTTTTTTCTTTTGTACTGAGCTCAGCATAGACTAATACTACCTTAATGTTAAAA
TCTGAATTTCTTTTAGCATTTTGCTTAAAGCAATATGCTATTTGCTTATTCGGTGCGAA

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FIGURE 40

TTTTTTTTTTTTTTTTCTTTTGTACTGAGCTCAGCATAGACTAATACTACCTTAATGTTAAAA
TCTGAATTTCTTTTAGCATTTTGCTTAAAAGCAATATGCTATTTGCTTATTCCGTG

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FIGURE 41

AGAGCACCGGCAGATCCCAGTNCAAAGTCTTTGACCCTTGCTGAATCTGAGCAGCACATTNCA
AGCAACCCCTTGCCTTGAAGGTGGTTGNCATCCCCCCTGGGAGTGAATAGCAATCTTTGTGGC
CACCGTTGGCATGAAGTNTATGAAGTGCTTGGAAGACGATGAGGTGCAGAAGATGAGGATGGC
TGTCATTGGGGGCGCGATATTTCTTCTTGACAGTCTGGCTATTTTAGTNNCCACAGCATGGTA
TGGCAATAGNATNNTTCGNGGNTTCTATGACCCTATGACCCAGTCAATGCCAGGTACGAATT
TGGTCAGGCTCTCTTCACTGGCTGGGCTGCTGCTTCTCTGCCTTCTGGGAGGTGCCCTACT
TTGCTGTTCCCTGTCCCCGAA

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FIGURE 42

AGGTAGTCCTTAAAAAAAAGTCTCCTCTCTGTACCCTTCTTCACCCAATCTACAACCTAGGTTT
TTTGGTAGGAATTTTATTATTAGNTACCAAACANGGTAACATCTTTACATGCCAGATTCCAAA
GATACCCTAGAAGAGCCAGAGGGTTGCACTTCCTCTCTCTCACTTTGCATTCCCTCCTAAGAA
ATACTTGCCCCCTAACTCAAAGGGCAGAAGGAGTCCAGGGCTCTTTCAGCATTAAAATTCTCTA
TAGTTTTCTGGGAGAGGCACATGTTCTGAGTGTGAGGAGAACTGTTCTGGTTATTGTTTATAA
ATTGTTTTTCATCTTCTATTTCTTATAACAGATTATAAAATTTATGTTTTCTGATGCTTCATACT
ATTATGAGGATTTGGTTGGCAAATTATCTTACAATAACCACCCATATATTCATGCATGG

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CCACCAAGAGCCTGAAGGCAGTCNCTGTGTTCCCCTTCCGACCTGGCAGAGCTGCGGGAGCTC
TCTGAGGTCTCTTCGAGANTACCGGAAGGANCACCAGGCCTACGTGTTCTTGCTCTTCTGCGGC
GCCTACCTCTACAAACAGGGCTTNGCCATCCCCGGCTCCAGCTTCTGAATGTTTTAGCTGGT
GCTTGTTTGGGCCATGGCTGGGGCTTCTGCTGTGCTGTGTGTTGACCTCGGTGGGTGCCACAT
GCTGCTACCTGCTCTCCAGTATTTTTGGCAAACAGTTGGTGGTGTCTACTTTCTTGATAAAG
TGGCCCTGCTGCAGAGAAAGGTGGNGGAGAACAGAAACAGCTTGTTTTTTTTCTTATTGTTTT
TGAGACTTTTCCCCATGACACCAAACCTGGTTCTTGAACCTCTCGGCCCAATTCTGAACATTC
CCATCGTGAGTTCTTCTTCTCAGTTCTTATCGGTTTGATCCCATATAATTTTCATCGA

[illegible]

[illegible]

The following table shows the results of the regression analysis for the dependent variable *Y* (in thousands of dollars) against the independent variable *X* (in thousands of dollars). The regression equation is $\hat{Y} = 1.2X + 0.5$. The coefficient of determination is $R^2 = 0.85$. The standard error of the estimate is $s_e = 0.3$. The t-statistic for the slope coefficient is $t = 12.5$, which is significant at the 0.01 level. The p-value for the slope coefficient is $p = 0.0001$. The F-statistic for the overall regression is $F = 156.25$, which is significant at the 0.01 level. The p-value for the F-statistic is $p = 0.0001$.

FIGURE 45

TTCAGAGCCAGAAGGGCCTCGAGCTGCNAGCCCCNTGGAATGAAGCAGGCCTGGGCTGAGGCT
GGAAGGGAANCCCCCTCTAAGCTGGNCCGGGGGCGGGAAAACCTTACCACCAGGGGACTCGAGAT
GGGGAAGGAAAGGTCAGAAAGAGGAGNAGGCCCAGGCACGGGGTGTGGGCGGCCTGCAGAGCT
GGAGCCAGNTGCTCCGCCCAGAGCCAGGCATGCACACTCAGAGTAGGTGGCCTGTGCCACCGG
GGAAGAGGGGCGGGTCGGCGTGCTGCTGAAGATGCCAGGNAGCTGCCGGCCTGCTCTGTGCGT
GCTGAAAGGTGTGGTGAGAAGCACTTACAAAAAGAAATGGACTGTGTTAGGATTGCACATTTT
ACTTTGTTTCTCCCAAATACGTTCTCTTTGAATTTTTTTCCTTCCAGGGCCAGGACTGGAGTG
ATGGTTGAGACAGGCACGCACTGGGTCTTGTCTGCATTTACATTTTGAGATTTTGTTTCAGCAT
GGATTTTATGGCGTTTTTTTTGTTTGTGTTGTTGTTTCGTTTTCAAATACTGCACCGA

FIGURE 46

CCAGATTTNGTTTCTTTCTTTTTTNAAAAAAGAAAAAAXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXATCCTTGGGTGTGGGCTGATCACCTTGACCTCAGGTCTTTGTGCTATTGCCCTC
TCTGCTTTTGGGCACCTTGACCTCAGGTCTTTGTGCTATTGCCCTCTCTGCNTNCGGGCACCT
TGACCTCAGGTCTTTGTGCTGTTGCCCTCTCTGCTTTGGGCACCTTGACCTCAGGTCTTTGTG
CTGTTGCCCTCTCTGCTTTGGGCACCTTGACCTCAGGTCTTTGTGCTATTGCCCTTTCTGCTT
TGGGCACCTTGACCTCAGGTCTTTGTGCCGTTGCCCTCTNNGCTTTGGGCACCTTGACCTCAG
GTCTTTGTGCTGTTGCCCTCTGTGCTTTGGGCACTCTTCCTCAGACCTGTGCATCACATTCCC
TCTCTTCAGCTCTCTGCTCAAATGTCACCTCCTTCCTGACATCTTCCTGACCATCCTAGCCA
AAATACC

FIGURE 47

CGCCCTAGCCCTCTGTGATTTTCATAATGCTGGAAGTATGCTTTTTTAAAAAGTTTAAATTCTT
GCCCAATTTTACTGTAGCGGGAATAAATACATGCTAGTATTCTGAGAGTNTTATGAAACTAGA
CATAAAACAAGTTAAAATTAATGGGGAAATGGCTAGATGTCCATGACTGTCAGAGTCAGTACA
TTGTCAGTATCCTCCAGAAATGTCACCTGATATTAAGCAAGCTGAGTTATTTCCGGCGTTGAAT
CCATGAAGAATGATAAATGTTTTCTCATCATACTTATTCTTAGAATGTTGTGATACTTTTGAT
ATTTCAAGTTACTCGTCTTTAAAAGGGGAGTGCCCTTCCCTGGGCCTTGCCCTAAGAGAAGAAAG
AAAGACTATATTAAGACAGAAAACATGGACATTTTAAAGAGACGAATACACTGCTATGTGAAA
TACCAGTTNTACTCAGTAAACTCCCTCGA

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FIGURE 48

GCAGGCCCAAAGAAGAAGCTCAGGCTGAAATGAACCGTACCGCCTNCCGAGGGAGAAAAGAATT
CNNGGCCAAGGAAGCTNCGGCATTGGGATCCCTTGGCAGTTGCAGCCACTGAAGTGGAGAAGG
AGACCCAGGAGAAGATGNCCTCCTCCAGACATACTTCCGGCAGAACGGGATGAAGTCTGGACA
ACCTCTTGGCTTTTGTCTGTGACATTCGGCCAGAATCCCTGAAAACCTACCGCATAAATGGATA
GAAGAGAGAAGCACCTGTGCTGTGGAGTGGCATTTTAGATGCCCTCACGAATATGAGCTTAGC
ACAGCTCTAGTTACATCTTATGATATGGCATTAAATTATTTCCATATATTATATAATAGGTCC
TTCCACTTTTTGGAGAGTAGCAAATCTAGCTTTTTTGTACAGACTTAGAAATTATCTAAAGAT
TTCATCTTTTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTCCTATG
TCTTTTGGCTCAAGCAACATGTATATCAGTGTTGACCGA

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FIGURE 49

CGGACGCTTGGGCNCGGCCAGCGGCCAGCGCTAGTCGGTCTGGTAAGTGCCTGATGCCGAGTT
CCGTCTCTCGGGTCTTTTCCTGGTCCCAGGCAAAGCGGAGCGGAGATCCTCAAACGGCCTAGT
GCTTCGCGCTTCCGGAGAAAATCAGCGGTCTAATTAATTCCTCTGGTTTGTTGAAGCAGTTAC
CAAGAATCTTCAACCCTTTCCACAAAAGCTAATTGAGTACACGTTCTGTGAGTACACGTT
CCTGTTGATTTACAAAAGGTGCAGGTATGAGCAGGTCTGAAGACTAACATTTTGTGAAGTTGT
AAAACAGAAAACCTGTTAGAAATGTGGTGGTTTCAGCAAGGCCTCAGTTTCCTTCCTTCAGCC
CTTGTAATTTGGACATCTGCTGCTTTCATATTTTCATACATTACTGCAGTAACACTCCACCAT
ATAGACCCGGCTTTACCTTATATCAGTGACACTGGTACAGTANC

FIGURE 50

CATGGTGGTGCGCAACTGTAGTCCCAGGTACTTGAGAGGCTGAGGTGGGAGGATCATCTTAAC
CCCGGGGAGATGGAGGCTAAAATGAGCTGTGTTACACCACTGTACCCAGCCTGGGCAACAG
AATAAGACGCTGTTTCAAACAAAAATGTGTAACAAAAACAGCAAAATGCTTAGTTCTTTGT
AAATGCAACATTTTAGGCTACTGTTTATTTGCCAATAGAACTTTTTTTTCTCTCTCTCTCCTT
ATNTGTAACTTAGCTATATATGTTTCTCACTCTTGGGTCTGTGTACTTCAAATCTTTTAGA
AATXX
ATGTTATTTTTTGTGGCTGCAGTGCATTCATTTCCACTATATAGTATTTTATTGTCTGATGTA
CCAGAATTTATCCACTCTCTTTTGTATGCATGTTTGGATTTGCAGTCTTTTGCTTTATGAAAA
GTGCTGCTGTAAAAATTATTA

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FIGURE 51

TTTTTTTTTTTTTTTTTGGTTTGTTGTTGTTGTAGTAGTCTGGTGCTGGCCACATTTAAGTCT
TAAAAATTTTAAATTTTGTTGTTGATGTTTGTAGACAGCCCTGTTGTTGAAATCATGGCTTT
ATTCATTTTATTTATTTTCGAACC

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FIGURE 52

TTTAATAGTTATTCGTCTTCTGTTGTATAGNCATTTAAGTTGNTTATATGTTTCTGTTATTAA
CCCTTTGTCCACGTATGATTTGCAAATATTTTCTCCCATTTTTTTTCAGTTGTCTCATTTTG
TTGATTNTATCAGATTCCATGAAGCAGCTTTTAAANTTCAAGAAAAACGAATC

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CGGAAGTCCCTTGAGGAGCGTCAGAAGCGGCTTCCCTACGTCCCAGAGCCCTATTACCCGGAA
TCTGGATGGGACCGCTCCGGGAGCTGTTTGGCAAAGATGAACAGCAGAGAATTTCAAAGGACC
TTGCTAATATCTGTAAGACGGCAGCTACAGCAGGCATCATTGGCTGGGTGTATGGGGGAATAC
CAGCTTTTATTTCATGCTAAACAACAATACATTGAGCAGAGCCAGGCAGAAATTTATCATAACC
GGTTTGATGCTGTGCAATCTGCACATCGTGCTGCCACACGAGGCTTCATTCGTTTCATGGCTGG
CGCCGAACC

FIGURE 54

CCCACTCAGATCTACTGAAACTGAAAACCTGGGAGCAGGGCCCAGCAATCAAGAGTTTTTAAC
AAACCCTCCTGGTCATTTTGATGCACACGCAAGTTTGAGAACCTGTGCCCTTTAGGAGGATTT
CCTTTTCCTCACTAAAAGCCCCCTGAAAGATGCCTCCAGGGTATGCCTCTGTGCCCTACTGCC
CACTGCTGCTTTCCTGTTTCCTAGGAATCCCCCTTATGAAGTACCCATCCTCCAGAAAGATTT
CTTACCTACCTTGAAAGGATCTTGGCTTCTCCACAAGGTTACTCCATCCTCTGAGCAGTTATT
TCCGATTCTACTTTTGAATGGTTTCTTTTCAGATCTTCCTCAGTGCTTCTCTTTCTGGCTAC
CCCTCAAGCCCGA

FIGURE 55

ATATATATATAAATATAGAAATATATATATAGAAATATATATATATCTCTCTCCATATCCAAA
AGCAAGATTACAAATTTTCAGTTGAGGGTAATAGCACTTAAAGTAGGAACAGAGATTCTTTATG
TGTTAGCATAATTCTTTTTTATTACAATTCTGTTACTAAAGAATCAGGTGTCATTAAAGGTGA
ACATGGTTACCTTCACCTTCTGCACAGCAGTTTTTCATATACTTGAAGACATTAAATCCCCTT
CCCCATCCAACCTTAATCTTTTCCAGCGA

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FIGURE 56

CGGACGCGTGGGCGGACGCGTGGGTGGCCTTAGAGTAGTTTTTTGAGCATTTATTGTGCTTGG
TGTTCTCTGAACTTCCTTAGATCTGTGGTTTGGTGTCTGACATTAATTTGGATAAATTTTCAG
TCATTGTTGTTTTAAATATTTCTTCTCTTCCTTTCTTCTCCTCTTGGTACTTTCATGTGTTTA
TATTACACCTTTTGTACCTGTCCCAGAGTTCTTGGGTATTATCTTCTGTTTTTTTTTGGGCCT
TTTTTTTTTCCCTTTGGTTTTTCAGTTTGTATTGATACATCCTTAAGCTCAGAGATTATTCTTT
TTTTTCAGCGGTGTCCACTCTCCTAATGAGCCCATCAGTGGCATTCTTCATTTCTGTCACCATG
CTTTGCTCTCTGGCACTTCTTTTCATTTTTTTCTTAGAATTCCTATCTCCCTGCTCATGCTGC
CCACCTGTTCCCTGCAAGCTGCCTACTTTCTCCATTAGAGTCCTT

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FIGURE 57

TGGTGTCTTTCCCACCACAGCCCNAGAGAGTCAGTCATTTTTTNCAAAGAAGCCNTGGTTGGCTT
TGTGGAGAATGATATATGTTATTATTATTNTCCGCAGCCAACATGACCGCTCCTCTGGTGTCT
TTCCCACCACAGCCCGAGAGTCAGTCATTTTTTCAAAGAAGCCTGGTTGGCTTTGTGGAGAATG
ATATATGTTATTATTATTTTTTGTTTTGTATGTTGTGTTTTTTAGACAGTCTCGCTCTTTGC
CCAGCCGA

FIGURE 58

GGAGTAAAAAGACTGTNAAACATTTTTTTTTTAAAAAATTATTTTTTACATTACGACAATATATT
TANGGATGTGTTNAGATCAAAAATTAAANTTCTGTGTCCCAGATCTACTTTCAAAGTGAGATT
TTCAC TTGTCAGCTTAAATTTNTGACTAGAACTAACATTTGTGTATTNTTGNGCTTAGTCGGA
ATACAAATTTACAGTGGATTTTGAAGTTTGTCTTAAATTGGATAAAATCAAGTGATTAAA
GTTACTAAAGAGATAAAAATGGTAATTTCCATTTTAAAAGTAATTTGGTTGTGTTTATAGTT
ATTTGTACAAGTATTTATCACAGCGAACC

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FIGURE 59

AGCAATGCCCTGCCCCCAGTGGAGGATTAATTCCTATGNTGGGGACAACATTGTGACNGCCCA
GGCCATGTACGGGGGGCTGTGGATGTCCTGCGTGTGCGAGAGCACCGGGCAGATCCAGTGCAA
AGTNTTTGACTCCTTGCTGAATTTGAGCAGCACATTGCAAGCAACCCGTGCCTTGATGGTGGT
TGGCATCTTCCTGGGAGTGATAGCAATCTTTGTGGCCACCGTGGNAATGAAGTGTATGAAGTG
CTTGAAGACGATGAGGTGCAGAAGATGAGGATGGCTGTCATTGGGGGCGCGATATTTCTTNT
TGCAGGTCTGGCTATTTTAGTTGCCACAGCATGGTATGGCAATAGAATNGTTCAAGAATTTTA
TGACCCTATGACCCCAGTCAATGCCAGGTACGAATTTGGTCAGGCTTTNTTCACTGGCTGGGC
TGCTGCTTNTTTCTGCCTTNTGGGAGGTGCCCTANTTTGCTGTTCTGCGAACC

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FIGURE 60

AACTTGT CAGAGGCAAGTGTCCAGAGTTTTGCTATANATT CATTATGGAAGGTTTNACCTTAT
TGAAATGACAGTTCCCCACCTTTAGCATTTTATATTGTTCCATTA ACTGTCANACAAACATTC
CTGCAAAATATCAGTTCAGGAACCAA ACTTACTTTCCCTGAGATGGTAACCGTTTCACAGCCT
NTCATATTGCTGCTTCATTANGTGATGAAGTCTAAACACGTAAATGGTGACCAGTTAAAACAC
ACACCTGCCGAACC

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FIGURE 61

CCNANGGGTCCGGTTTTTTTTGNATTTTTTAGTAGAGACGGGGTTTCACCATGCAAGCCCAGCTG
GCCACGTAGGTTTTTAAAGCAAGGGGCGTGAAGAAGGCACAGTGAGGTATGTGGCTGTTCTCGT
GGTAGTTCATTCCGGCNTAAANAGACCTGGCATTAAATTTCAAGAAGGATTTGGCATATTNTTT
TCTTGACCNNNCTCTNTAAAGGGTAAAATATCAATGTTTAGAATGACAAAGATGAATTATTAC
AATAAATNTGATGTACACAGAGTGAAACATACACACATACACCNTAATCAAAANGTTGGGGNA
AAATGTATTTGGTTTTGTTTCCTTTTCATCCTGTCTGTGTTATGTGGGTGGAGATGGTTTTTCATT
CTTTCATTACTGTTTTGTTTTATCCTTTGTATCTGAACGAACC

CCNANGGGTCCGGTTTTTTTTGNATTTTTTAGTAGAGACGGGGTTTCACCATGCAAGCCCAGCTG

FIGURE 62

AGAGACGGGGTTTCACCATGCAAGCCCAGCTGGCNANGTAGGTTTTAAAGCAAGGGGCGTGAA
GAAGGCACAGTGAGGNATGTGGCTGTTNTCGTGGNAGTTCATTCGGCCTAAATAGACCTGGCA
TTAAATTTCAAGAAGGATTTGGCATTNTCTTCTNGACCCTTNTCTTTAAAGGGTAAAATAT
TAATGTTTAGAATGACAAAGATGAATTATTACAATAAATTTGATGTACACAGACTGAAACATA
CACACATACACCCTAATCAAAACGTTGGGGAAAAATGTATTTGGTTTTGTTCCCTTTCATCCTG
TCTGTGTTATGTGGGTGGAGATGGTTTTTCATTCTTTCATTACTGTTTTGTTTTATCCTTTGTA
TCTGAACGAACC

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TCTTTAGAGATCTTTGACTTGACCNAAAGGGTCCGCAAAGGGTTCGGGTTTTTTGTATTTTNAG
TAGAGAGGGGTTTNACNATGCAAGCCAAGNTGGCAAAGTAGGTTTTAAAGCAAGGGGCGTGAA
GAAGGAAACAGTGAGGAATGNGGCTGTTTTTCGTGGTAGTTTCATTCGGCENNAATAGACCTGGC
ATTAAATTTCAAGAAGGATTTGGCATTTTTTTTTCTTGACCCTTNTCTTTAAAGGGTAAAATA
TTAATGTTTAGAATGACAAAGATGAATTATTACAATAAATTTGATGTACACAGACTGAAACAT
ACACACATACACCCTAATCAAACGTTGGGGAAAAATGTATTTGGTTTTGTTCCCTTTCATCCT
GTCTGTGTTATGTGGGTGGAGATGGTTTTTCATTCTTTCATTACTGTTTTGTTTTATCCTTTGT
ATCTGAA

GTGTGTGTGTGTGTGTGTGTGTGTATGTGTATATATATATACATATATATACACATATGTATG
TATACCTAANTCCTAAAGTGGAAACAGTAAGAGTCATTATTTATAGATTATNTGATTNTNTATG
TGGAAAGAGAAAAGAATCATATTAAGTACTTTGGACTGAACAATGACCCCCAAAATTNGTATG
ATGATGAAGCTCTCTNTAAATATTTTCTTGCTTTACTGGACTGATTTTAAACCGCT

FIGURE 65

AGGGATCCAGGTTGGTAGAGNAATCCCGGCCGGTTTCCCAGAGATGTTTAACCAGCACNTGCT
TNTGAGACTTCGTTTTNTGTTCCAGCAACCCTGGTTGGGGGGTCAGACTTGANACACTTTCAG
GTTGGGAGTGGACCCACCCAGGGCCTGNTGAGGACAGAGCAGCCAGGCCGTCNTGGCTAANT
TTGCAGTTGGCANTGGGTTGGGGAGGAAGAGAGNTGATGAGTGTGGNTTCCCTGAGNTGGGGT
TTCCCTGCTTGTCCAGTTGTGAGCTGTCCTCGGTGTTACCGAGGCTGTGCCTAGAGAGTGGAG
ATTTTGGATGAAAGGTGTGCTCGCTNTCTGCGTTCATCTTCTCTNTCCTCCTTGTTCTGCA
AAC

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FIGURE 66

ACTTAAAAATATTGTTGAGTTCATAACNGATTTTTTNGTATATATCATACATAGAAAAATATTAA
ATTTTTGTTCTAAAACAACCAAAAATGGAGCATACATTTAGAGTGGCATTTGTTGCATATTAT
TAAACAAATGAACTGANTNTTTTTTTCATCCTGANGCAGATTANATCCCATTTTAATCTTTTT
CCTCTCTCCTTTTCTNAACCNACNTCAGAGTATCCTGTAACAGCTGTCCCTATAGTTTTCAAG
GAAAGTGATAATAATGAGATTACTTCTTCTTCATCGTTTATTTTTTTGGGAGGATGGGGAAA
CCACAC

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FIGURE 67

TCCCCTGAATATTCAGGAGGGAGAAGCAATCGCCCCAGGACAGAGACGGGGANATCCCAGGAG
CAGGGTACAGGNTTTAGCAATATCCATCTTGCGGTANTCCCTCCCTNACAACAACCAGAC

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FIGURE 68

AAATGACCTATAAATAAGTTGGTTTGGGANATTATTATTTTTTTTAGCATTATTTTTTAAAATAG
ATNATGGTTNATATTTAATTGGAATTCCATAATNTAATGTACTGATAGGTAANTTGTGTGGAA
ATTGTTTNGCAGACATAAATTACTAAATAAATGTTCTGTTTTTCAGATAGTTTAGTNTTTGNGA
CATTAAGTATTGGGACAGATTGTTTTGACTCCAATTAATATTCTGAAATTTTTCTCCTTTCAT
TACCTACCTNTCCATTATGCCTCAGTTGTAACGGTGAGTAAACTATTTTTGTGTCTCATACT
TTCTTTATCTTTAAACTTTGTTTTTACACAGTAATTATTTTCAACCATNTTTTGCTAACTGCAC
CTCGCTGCATGGTTCCTTCCTGTGTCCCACCAACCAGCCGCCACATTTTACCANATGTTCCCA
GTGTTTCATGGGCCCTTTCCACCCTTGTCTCAAAATNTCCCTATTGATTTTATTTTGCTTTTGT
TANTCCCTTCAAACGCC

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FIGURE 69

AGAGACGGGGTTTCACCATGCAAGCCCAGNTGGCCAAGTAGGTTTTAAAGCAAGGGGCGTGAA
GAAGGCACAGTGAGGTATGTGGCTGTTCTCGTGGTAGTTCATTTCGGCCTAAATAGACCTGGCA
TTAAATTTCAAGAAGGATTTGGCATTNTNTTTCTTGACCCTTNTCTTTAAAGGGTAAAATAT
TAATGTTTAGAATGACAAAGATGAATTATTACAATAAATTTGATGTACACAGACTGAAACACA
CACACATACACCCTAATCAAAACGTTGGGGAAAAATGTATTTGGTTTTGTTTCCTTTCATCCTG
TCTGTGTTATGTGGGTGGAGATGGTTTTTCATTCTTTCATTACTGTTTTGTTTTATCCTTTGTA
TCTG

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FIGURE 70

[illegible]

FIGURE 71

G TTCAGGACCAAGCGGTAAGAAGGCNTGAGGACCCAGGCCCCANTGGAGCAGTNTGTCCTTAT
GCCGAATCAAGGCGGAACATGGGTGAAAGACGAGTAAGGGGCAAATCACAGAATATTCCACAG
CGCCCTCCAGAGTTACNTGGGGAGGACCGAGGCCACACGCCACTGCCCCCGAGGCCAGAGTGT
AAGTAAAGGATAACCAGGACTCGCTGGGAGAGATGGATTCTGTCTCAGCAACANTCCACAGC
AGAAAGGGGTAGCAGGTACCCCTTTTTATCAGCGGTAAAAATGCATTTACAACCTTTCATTTA
ACCGAAAAACACAGACCGCTTTAACCTTTTTATTTNTGTCCCCCACTGCATGAACATTTATAC
AATTTTAAAAATACTTCCTCATAGGATGCTTTGGCCCTTCATCTATTTAATCATAGCTACATA
CCTATTTTTTTATAAGTAGCAGTACACATTCAAAGGGGTATTCCTAGCTCAATGCTTGGTGTTN
TAGTTCAACTTTTATCCTGCAG

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FIGURE 72

TAGAAATAACCCCTTTTCCTTATTNGATTTTAGTCATCAAACATAGTATGATATGGGAAAAGTC
AGCCATTTACCAGAAATTATCTTATTTTGATTTTAAAACTCATTTCTATATGTAGTTATTGT
AATGTCTATTTTTTTTAGACTTAAAGATTTATAGAAGACTATAGTTATCTGATTTGTTATTTGG
CATTTTTTCATTCTGTAAATCTTTGCTTATGGCACATTGTGCTCTCTGTTTTCCATGGTTTTA
TTCATTTATCTCCTCCTATTTNGAGGGGACAACATGGGTAGTTAAATCTTTGTCAATAGTATT
GGAGATAACACTAACTGCTATTATCATAACATNTTCATTTTTACTGCATGC

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GGACTGAATNCACCTTGTAATGGTGACCACTGAAAGCTGCAGAGGGACAGTAGGTATTTNATNA
AATGCCTTATATGGCATTCTATATGAAGAACCTCTGAACCCAAAGTATATTATTTAGAAAGAA
AGATAAAGAGATATAAGCAAAGTAAGAATATATCTTAAAAGTATCTTATAAACCATTAACTTA
TAGTGGTAAGATAAACCTCTATCAGCAGGAAAATACCTGCATATGCATACATAAGGAAGACT
GTGCACCTAATCTAGGGATACATAATAAGGTGGACTCTGTATTAGTAGTAAGTATTTTTATAA
AATAAATACTTAGAACAAATTATATAAGATAATTATAAATATTAAGATCTTTATATTGCATTGC
TTCTGACTTAAAAAATGAATAAATAAATGGGGTCTTGCTATGTTACCCAGGCTGGAATGCAGT
GGCTATTTACAGGCACAATCATAGTGCCTACAGCCCCAACTCCTGGGCTCGAGCAATCCTG
TTGCCCAGCCTCCCAGGTAGCTGGGACTATATATAAGCAGGCACCACTGTGCCTGGCTGCTTC
TGACTAATCCAAGTAAGAATAATAAATCTATGACAAAGTTATACACAATCTCCTACCCCTACC
TCAG

FIGURE 74

ATGGAACCCAGTTGGAAACCACTCTTCACGNTTATTTATCCNGGGGAAC TTCCCCAACNTAG
CCAAGGCTTCGGTTGAGTTCTCACTCCAAAGGTGGGAACTGGACCATGGGNACACTTGGACAC
GGATGGGGAAC TCACACACCGGGCCTGTCTTGGGGTGGCGGTAGGGCGTAGCGATAGCATAGG
AGATACACCTAATGTAATGACGAGTTATGGGTGCAGCACACCAAATGGCACTGTATACGTATG
TAACAAACCTGCAC TTGTGCACATGTACTCTAGA ACTTAAAGTATAATATAAAAATTTTAAAA
ATTTTAAAAAAATAAAAAAATCACTGGGCTAAAGTAAATAAGTATTTTACTGGTTCTAAGATT
GTTTTTCAGAGAGAAAAACAATAGAAGTGTAGAAGCAATTCGATAAAGAAAGGAGTCTTTTCA
ACAAATGTTGCTGCAACAGTCAAATGTCTGTATGCAAAAAAATGAACCTCCA

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TGGAAAAAAAAAAAAAAAAAGCCCCTTTTTCAGTTTGTGCCACTGTGTATGGTCCGTGTAGATTGA
TGCAGATTTTCTGAAATGAAATGTTTGTTTAGACGAGATCATACCGGTAAAGCAGGAATGACA
AAGCTTGCTTTTCTGGTATGTTCTAGGTGTATTGTGACTTTTACTGTTATATTAATTGCCAAT
ATAAGTAAATATAGATTATATATGTATAGTGTTTCACAAAGCTTAGACCTTTACCTTCCAGCC
ACC

TGGAAAAAAAAAAAAAAAAAGCCCCTTTTTCAGTTTGTGCCACTGTGTATGGTCCGTGTAGATTGA
TGCAGATTTTCTGAAATGAAATGTTTGTTTAGACGAGATCATACCGGTAAAGCAGGAATGACA
AAGCTTGCTTTTCTGGTATGTTCTAGGTGTATTGTGACTTTTACTGTTATATTAATTGCCAAT
ATAAGTAAATATAGATTATATATGTATAGTGTTTCACAAAGCTTAGACCTTTACCTTCCAGCC
ACC

FIGURE 76

TTTAGGGTTCTTGACTTGNACCAAGGTTTCGGGGAAATTTAAAGGNTTAAGGAANGGGAGGA
AANGTTTCTTAAATTTGGAATTAACAGTAATAATTTTTTGGAAATTCGAATAAAATTGGCAAAA
GATTGGGAAATTTTGGANGAATAAGGGAAACAGATANTTTTCNGGGTATTCAGGTAAAGTTTA
AAAAAGGTTTTTAAAGAGAGGTTTTTCTAACATTTTGAAAAGCAACATGAAAAATGAAAACAGT
TTTAACAGATATACAATATGGATGACTTATATACAAATGACNNTTAAATATATTAAATTCATT
ATAGTAGTTATATTTAAGTAAAATATGATGAAATTTAATAGAGATTCACCTCNTCCCAAAGCA
CCTTCATGGAAGATTCTNTCATTAACAGGCAGTCCTTTAGTATGCTGATTTATACAAAATGCTG
AAAAGAAGAGAAATACCCCAAGTTCTTGAAAAAAAATTTTTTTGATATGACTACTCTAACAGTA
ATAACTATAAATCTCACTTTAAATAATTTAAAACAAATTAAGTGATATATGAGTTAAATGAC
CAAGCAGACTTGATTNTAGGAATGTTAAGGAATGTTCATTATTTGTTTTGGATAATGAAG

FIGURE 77

TTTGAAAAGTTTAAAAGGGAGGAAGTGGTTTTTATGATTTGGCCGTTTCCGGTTGCCNTNCAG
AGAGTTCCTTGCCCTTCCCTGCCCTTGAAGGTGACNTGTGGCCCNNTTGGGTGNTGATGGACCT
GTGTTCCCACCCTGGTTCAAAAGCAAAGAAAAGGGAGTGGTATCAGAAAATGGAAGAAGAGA
GTAAAGAAGACAGTGCTGGCTTGAGAGAAGCAGTGGCTTCAGGTAAAAGGNTACTGCCAGCGA
TATGGACGGGAGACAGAGAAATGNTAGAAGAGGGCGGTTCCCCAACAAAGGCCCCACCCACAA
GCCTGGACACCTGTGGCCCTAAATGAGAACAGGCATTCTGTGTTTTGCACCCAAAAAGTGGTT
TTTTGGTATGCCACACCCCTATCCTATACCCATATAAACCTGAACCCAGGNTCCAGCTCA
GACCAGCAGAGGAGGAGACGAGACAAGCAGACAATGCAGAACAGTGCAGCAGAGAGAANTNGA
GAG

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CCACGGTGTCCGTTCTTCGCCCGGCGGCAGCTGTCCCCGAGGCGGGAGGAGCCCGAGGGGCGC
GAGCCCCGCATGAATCATTGTAGTCAATCATTTTCCAGTTCCTCAGCCGTTCAAGTTGTGATCAA
GGGACACGTGGTTTCCGAACTGCCAGCTCAGAATAGGAAAATAAACTTGGGATTTTATATTGGA
AGACATGGATCTTGCTGCCAACGAGATCAGCATTTATGACAACTTTCAGAGACTGTTGATTT
GGTGAGACAGACCGGCCATCAGTGTGGCATGTCAGAGAAGGCAATTGAAAAATTTATCAGACA
GCTGCTGGAAAAGAATGAACCTCAGAGACCCCCCCCCGAGTATCCTCTCCTTATAGTTGTGTA
TAAGGTTCTCGCAACCTTGGGATTAATCTTGCTCACTGCCTACTTTGTGATTCAACCTTTCAG
CCCATTAGCACCTGAGCCAGTGCTTTGTGGAGCTCAC

FIGURE 79

GTTTGTCCCTTTTTCCNGTTTTTTTTTGGACAAATT CAGTATAACCAAGCAACATNAATTCCAGT
TTNGGTGGATTCCCGGGGTCTTTTGGGATCCTTGACTTGACCAAGGGTCNGGCCCTTTTCNGT
TGGGACGTTTGTAAGTTTTGGGCAGTTTCCGGGNGANTNGGGANTCGGGTTTNGCTTTCTGTG
TTCCATTGCCCCGGNGCGGTGGTGCAGTTTTTCGGGCTAGTCATGGGTCCCCGTTTCGGAGAC
TGCAGANTAAACCAGTCATTACTTGTTTCAAGAGCGTTCTGCTAATNTACACTTTTATTTTCT
GGATCACTGGCGTTATCCTTCTTGCAAGTTGGCATTGTTGGGGCAAGGTGAGCCTGGAGAATTACT
TTTNTNTTTTAAATGAGAAGGCCACCAATGTCCCCTTCGTGCTCATTGCTACTGGTACCGTCA
TTATTCTTTTGGGCACCTTTGGTTGTTTTGCTACCTGCCGAGCTTNTGCATGGATGCTAAAC
TGTATGCAATGTTTCTGACTCTCGTTTTTTTTTGGTCGAACTGGTCGCTGCCATCGTAGGATTTG
TTTTCAGACATGAGATTAAGAACAGCTTTAAGAATAATTATGAGAAGGCTTTGAAGCAGTATA
ACTNTAC

FIGURE 80

GGCGGTATCTTTTTTGCNAGTTGCAATTGGGGGCAAAGGTGNCCCTGGAGAATAATTTTTTTT
TTTAAAATGAGAAGGCCACCAAGTCCCCTTGGTGATCATTGNTACTGGTACCGTCATTATTTT
TTTGGGCACCTTTGGTTGTTTTGCTACCTGCCGAGTTTTTGCATGGATGCTAAACTGTATGC
AATGTTTCNGACTCTNGTTTTTTTTGGTCGAAATGGTCGCTGCCATCGTAGGATTTGTTTTTCAG
ACATGAGATTAAGNACAGCTTTAAGAATAATTATGAGAAGGC

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FIGURE 81

GTATGGCAGAGGATAAGGCGTTATGAGAAGCTGCCAAGCTTCAGATGTGCAGNTGGGNTGAAT
ACCGACGCCAGCGCNTAGCGCCATTACTTTGCACCCACACTTAGGAAACAACCCACGCCTCA
CCGCGGGACCCGGACCCAGCCNTCCAGCACCCAGCNTCCGGTTCCGACGTCCGCGCGTGACCT
CCGGGTACCGGAGGACCTTGCGACGAGGAGGTCCCTCCGCTTCCGGTAGGATATATCTGCAT
NTTGAAAGGAAGATAAAACAAAAGCCTTNTTTGGAATAGATGGATTTTTGTCACTTTCTGTGT
GAACTAAAGTGATTCAATGTNTCTTTTGGATTGCTTCTGCACTTCAAGAACACAAGTTGAATC
ACTCAGACCTGAAAAACAGTNTGAAACCAGTATCCATCAATACTTGGTTGATGAGCCA

FIGURE 82

ACTGATCAAAGGCAGGCGATACTTCCTGTTGCCGGGACGCTATATATAACGTGATGAGCGCAC
GGGCTGCGGAGACGCACCGGAGCGCTCGCCCAGCCGCCGCTCCAAGCCCCCTGAGGTTTCCGG
GGACCACAATGAACAAGTTGCTGTGCTGCGCGCTCGTGTTTCTGGACATCTCCATTAAGTGGA
CCACCCAGGAAACGTTTCTCCTCAAAGTACCTTCATTATGACGAAGAACCTCTCATCAGCTGTT
GTGTGACAAATGTCCTCCTGGTACCTACCTAAAACAACACTGTACAGCAAAGTGGAAGACCGT
GTGCGCCCCCTTGCCCTGACCACTACTACACAGACAGCTGGCACACCAGTGACGAGTGTCTATA
CTGCAGCCCCCGTGTGCAAGGAGCTGCAGTACGTCAAGCAGGAGTGCAATCGCACCCACAACCG
CGTGTGCGAATGCAAGGAAGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTG
CCCTCCTGGATTTGGAGTGGTGCAAGCTGGAACCCCAGAGCGAAATACAGTTTGCAAAAGATG
TCCAGATGGGTTCTTCTCAAATGAGACGTCTCTAAAGCACCCCTGTAGAAAACACACAAATTG
CAGTGTCTTTGGTCTCCTGCTAACTCAGAAAGGAAATGCA

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FIGURE 83

AGGCTTTCATTCCCCACCTANGGAGTTAATTTTTTTGGATTAAAAGGTTTTTAGAACTTTTTTGT
TGATGGTTGGTTTTTATTAAGGCCCGGAAGAAACATTTCAGATTTCGATTGAGGACCAGGAAATGG
CCTTNTAGGGAAGAGAAGGCATTNTGCTAGATGGCTTTTAAAAATATTTCCGCCAGAGTCACT
TGTCTCATTAACAACAGTTTTTGTCTTAGAAGTCTNTCTGTGATTTTATAAACTAGCATGATT
TTGTTATGAATGCATGCTGCTCTGGTCTCTAATAAGCCCAACATGCATTTGCATCATGTCGG
CAATAAGCACTTTTTTTTGCTGTGTTAACAATGTCATNTTCATTGTTGTGTGCCTGTGTTTTGA
CTGTGACCTGTCACATGAGGTTGGGTGTGGAATTTTCCACTTGTGGCAA

FIGURE 84

TCTTTGGAGCTGCAGGAGGGACGGATGGCGGAACCTTCCAGTCCCCTTCAGAGGCGACTGCCA
CTCGCCCGGCCGTGCCTGGACTCCCTACAGTGGTCCCTACTCTCGTGACTCCCTCGGCCCTG
GGAATAGGACTGTGGACCTCTTCCCAGTCTTACCGATCTGTGTCTGTGACTNGACTCCTGGAG
CCTGCGATATAAATTGCTGCTGCGACAGGGACTGCTATCTTCTCCATCCGAGGACAGTTTTCT
CCTTCTGCCTTCCAGGCAGCGTAAGGTCTTCAAGCTGGGTTTGTGTAGACAACTCTGTTATCT
TCAGGAGTAATTCCCCGTTTCCTTCAAGAGTTTTTCATGGATTCTAATGGAATCAGG

CCCTTCCAGTCTTACCGATCTGTGTCTGTGACTNGACTCCTGGAG

CAGGAACCTCTTTAAGAAAGTNTATTGTTACTNAAAACACACCACTGTCTTCTGGATGCTTTT
CTGGTTGCCTTTGAAGTTCATGCAGGTGGAGGACGTGGACATTGACGAAGTTCAGTGTATTCT
GGCTAACTTGATATACATGGGACACGTCAAAGGCTACATCNCGCATCAGCATCAGAAGCTGGT
GGTCAGCAAGCAGAACCCATTTCTCCCTGTCCACGGTGTGTTGAAAGTACACGGAGCCCCG
AGGACGGGTGAGCAGTTGTTTCTTTCCACTTTGGTTGTGCTGATGAGACCGGTCCGGTACTGC
AACAAGGCG

FIGURE 86

CAACATTCTGGACCACTAANCCTCTCTTGGCAACACTNGTTGGACAGATCCTGAAGATATGGG
NGACCTATTCTAGAAATGTTGCTGAAGCTTTTCTGGATGGTGGTGAATATAATTCTGCACTTC
CCCTCCTCAGTGCTCTTGTTTGCTCTGAAAGATACAACCTTGCAGTAGTTTGGCTTCGTCATG
CAGAAATGTTTAAAGGCCTTAGGCTATATGGAGCGAGCTGCTGAAAGCTATGGCAAGGTGGTTG
ATCTGGCCCCACTCCATTTGGATGCAAGGATTTCACTTTCTACCCTTCAGCAGCAGCTGGGCC
AGCCTGAGAAAGCTCTGGAAGCTCTGGAACCAATGTATGATCNAGATACTTTAGCACAGGATG
CAAATGCTGCACAGCAGGAACTGAAGTTATTGCTTCATCGTTCTACTCTGTTGTTTTACAAG
GCAAAATGTATGGTTATGTGGATACCTTACTTACTATGTTAGCCATGCTTTTAAAGGTAGCAA
TGAATCGAGC

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FIGURE 87

AAATGTATGTATCATCAGTTGGNTACGTTTTGGTTCTATGCTAAACTGTGAAAAATCAGATGA
ATTGATAAAAGAGTTCCCTGC

CGGGTAACTTAGTGTTTTTGCNACAAGGGAAATTTTTTTTTTCAGCCAGGGGGNGGGGGCCCTG
TGGNATCATAAAAAGGTCTTGGCATGGNTAACAGCCATTTTGGCCANTTTGCCGGAATTTGTG
GTTTATAAACTTCAGATGGAAGACCAGAAATAACAAGTGTGCATTTAGCAGAATTCCCTTCCT
GCCAGNTGATGAGACATTNTGGAAGCATTTTCTGACTTTAAAAATGAACATTTCCGGTTCTTGT
CCTCCCCCTATTTATTTTTTACATTTCTCTATGTGCAATGAGAAAAACACTAAGGTTCAAGGA
GCAGAGGTATAGCCTTTTCAAGCTTGTTTTTGGCATAATGGTAGTCTTCCTTCTGATGTGGGC
GCCCTACAATATTGCATTTTTTCTGTCCACTTTCAAAGAACACTTNTCCCTGAGTGACTGCAA
GAGCAGCTACAATTTGGACAAAAGTGTTTACATCACTAAACTNATNGCCACCACCCACTGCTG
CATCAACCCTCTCCTGTATGCGTTTCTTGATGGGACATTTAGCAAATACCTCTGCCGCTGTTT
CCATNTGCGTAGTAACACCCC

FIGURE 89

CAGGAATCTCGAACACTGGCTCCTCCCCTTAGTTCCCGCCCTCGGAGTCAGCAAGCAGGGGGA
GTNTGAGGNCCCTGGGACAGCTCTGACTCTGGCTGACACACCTGCCTCTGGGCAAGGGTGGTG
CATATCTGAGGCGGACAGGCACACATGGAGAAGTCAGAGTCCACGCCCTCTGCTCCATCCCAG
TAGCCACCGTCTCAACTCAGCCCCCTCGTCACTTCACACTTTGGCAGTGGTTTCTGTCCACTCA
GCTGGTTCAGTTGGCTCTATCACATCTCCCGGCCTCTAGGGTTGGCTCAGGCCCACCTCCGTC
CTCTCATAGGGCTGGCCATCCAACCATATCACTCCTCTCACGGCTTTTAAGGATAAAGTTTGA
AGCCTTAAGGATACGTACAGGTCCTCTAGGCCCTGCTTACCTCAGCTTCTGCCTAGAAGTTT
ATGCCCCAGAAACAGTGAAACCTCCATGTTTACCCTCACACAACCTGTGTGTCTCAACACCAT
ACTTTTGCTCATACTGG

FIGURE 90

TCCGGGCCCCCGGGGACGCTGTCCCTGAACTTGCCGGGGAGCNGCCCCGGCGTCCCGCGCGT
CCCCGCGTCCCTGGCAATTCCCGACTTCCCAACGGGGCTCCCTGCTGGCAGCCCCGNAGCCGC
ACCATGTTCCGCCTCTGGTTGCTGCTGGCCGGGCTCTGCGGCCTCCTGGCGTCAAGACCCGGT
TTTCAAAATTCACCTTCTACAGATCGTAATTCCAGAGAAAATCCAAACAATACAAATGACAGTT
CAGAAATAGAATATGAACAAATATCCTATATTATTCCAATAGATGAGAACTGTACACTGTGC
CACCTTAAACAAAGATATTTTTTAGCAGATAATTTTATGATCTATTTGTACAATCCAAGGATC
TATGAATACTTATTCTTCAGATATTCAGACTCAATGCTACTATCAAGGAAATATTGAAGGATA
TCCAGATTCCATGGTCACACTCAGCACGTGCTCTGGACTAAGAGGAATACTGCAATTTGAAAA
TGTTTCTTATGGAATTGAGCCTCTGGAATCTGCAGTTGAATTTTCAGCATGTTCTTTACAAATT
AAAGAATGAAGACAATGATATTGCAATTTTTATTGACAGAAGCCTG

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FIGURE 91

TTGAGCTCGATATCCACAGAGCNTCCAGCAGAACGGTTCCTTNTACATCCACGTTTACTT
CACCNAAGAGTGGCTTCCCACCCAGACCCCCGGCAAAAGCCCTNTACCCNCCGGNTTGCCACA
GTCCACATGTCCCGGATGATCAACAATACAAGCGCAGACGATTTTCAGAAAACCAAGAACTGC
TGACAGGAGAGACAGAAGCGGACCCAGAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGA
GGTGATCTCCCATTTGGCACCCCAACATCACCATCAACATCGTGGACGACCACACGCCGTGGGT
GAAGGGCAGTGTGCCCCCTCCCCTGGATCAATATGTGAAGTTCGACGCCGTGAGCGGTGACTA
CTATCCCATCATCTACTTCAATGACTNNTGGAACCTGCAGNAGGACTAGGGCCCCATCAACGA
GAGC

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FIGURE 92

CCCTGCTGTCTTGGGGCCCTGGTTTGGTGCCCTTTGCCAAAANAGCGGTAGGTCCCCTGGACN
GAACCAAAATNATCTTCCCAAGTGTCTTCAAAAAGATTTTCTGCCAAGGNGGCCTTCCGGGTC
GTATACTACACNTACCTGCGANGAGGGATTNTCAGCTTGTGGGGCGGGAANTCGGCCACCAT
GGTGTGCGTGGTGCCCTANGCCGCCATCCAGTTCAGCGCACACGAGGAGTACAAGCGCATCCN
GGGCAGNTANTATGGCTTCGGTGGAGAAGCCCTGCCCCCTTGGCCTTGCNTTTTCGCCGGCGC
ANTGGCTGGAACGACAGCCGGTTCAGTACNTACCCCTGGACCTGGTCAGAGNGNGGATGGC
NGTAACCCCGAAGGAAATGT

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FIGURE 93

AACTTAATGCAAAGGGTGTGAGATGTTCCCCCNGCTGTAAAATGAAGGNCTATTGNTATTTA
TTGAGCTTTGTGGGANTGGTGGAAGCAGGCCCCCATGGACCATGCCCCNCCCT

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FIGURE 94

GGCAGCCGCGGCATGTCTATAGCAACTTTTTTANTACCANCCAAGTTTGTAGAACATTATCCA
ATATGTGGACTNTCACAATCATTGGGATTGGACCGGATAAGTTAATAAATTTGGCCTTATTTG
NTTGGAAGTGATTATACCGAAGGAATNCCAAGTGTGGGTGTGTAACCGNCCATGGNAATTCT
ACAATGAATTCCTGGGCATGGCCCTGGAACNTCTCCTAAAATTCTCAGAATGGTGGCATGAA
GCTCAAAAAAATCAC

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Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

TTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTNTCATTTCTGTCGCTCGGGCTGGAGTGCAG
TGGCGCCATCTTGGCTCACTGCAACCTCTGCCGCCAGGTTCAAGTGATTCTCTTGCCCTCAGCC
TCCAGAGTAGCCGGG

FIGURE 97

GTTTTTGTTACAGTTTTTGCCCAACCATGGTTGCAGTTATAATGATGAGCTGCAGTTTTTGGAG
AAGATTCAATAAAAAANTGNTGGAGGATCAAGAAGGGTTTGTGCCCAACATGCAGGTTGAAGGT
GTTTTNTATGTGAATGATGNTTTGGAGAAATTGATGTTTGAGGAATTAAGGAATGCCTGTNGA
GGTGGTGGTGTGTTGGTGGTTCCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTGCCTG
GAATTGTTTCATCGATTTATTGGGCTTCCTGATGTCCATTCAGGATATGGGTTTGCTATTGGGA
ANATGGCAGCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTNGGGTTTG
ANATNAANTGTGGTGTCCGCTTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGA
AGGAGCAAATTGCCCAAGCTATGTTTGACCANATTCCTGTTGGGGTGGGGTCAAAGGTGTNA
TCCAATGAATGCCAAAGAATTGGAGGAGGCCTTGGAGATGGGGGTGGANTGGTCCTTAAGAG
AAGGGTATGCCTGGGCTGAAGACAAGGAGCC

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FIGURE 98

AATTAGAAAAGGAAGGTTTATTTTTTAANATTCTTCTTCCAATTGGTTTAATGGTGAATTAATG
AAGNNGGTAAGCAAAACCAGGTGCTTGCGTTGAGGGTTTGCAGTGGNTGGGAGGACCCCGGG
GTTTCCCCGTGTCTTTTCCANGAATNGTTCGGCCCCCTTTGGAATAAAANACCCGCGAGCCCCG
AGGGCCCAGAGGAGGCCGAAGTGCCCGAGNTNCTNCGGGGGTCCCGCCCGCGAGNTTTTTTTT
TGCCTTNGCATTTCCTCCTNNGGCGTTTTTGGANATGCCAGGAATAAAAAGGATANTNACTGTT
ACCATTTTGGNTTTTTTGTTTTCCAAGCCCTGGGAATGCACAGGCACAGTGCANGAATGGCTTT
GACCTGGATTGCCAGTNAGGACAGTGTTTAGATATTGATGAATGCCGAACCATCCCCGAGGCC
TGCCGAGGAGAAATGATGTGTGTTAACCAAAATGGNNGGTATTTATGCATTCCCCGGACAAAC
CCTGTGTATTGAGG

FIGURE 99

ATACCAAGCAGGCCTTTGGCATCATGAACGAGCTGCGGNTCAGCCAGCAGCTGTGTGANGTCA
CACTGCAGGTCAAGTACCAGGATGCACCGGCCGCCAGTTNATGGCCCACAAGGTGGTGCTGG
CCTNATCCAGCCCTGTTTTNAAGGCCATGTTACCAACGGGCTGCGGGAGCAGGGCATGGAGG
TGGTGTCCATTGAGGGTATNCACCCCAAGGTNATGGAGCGCCTNATTGAATTTGCCTANACGG
CCTCCATTTCCATGGGNGAGAAGTGTGTCCTNCANGTNATGAACGGTGCTGTNATGTACCAGA
TTGACAGCGTTGTCCGTGCCTGCAGTGAATTCCTGGTGCAGCAGNTGGACCCCAGCAATGCCA
TNGGCATNGCCAAATTTGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCCGGA

FIGURE 100

TTGGCATATTTTTTCCCAGCTTAATTCAATTCCAGCATTGTCATGCAGCACGGNAATCCTTTG
ATTCCACAGANACATATCCCCAGCATGCGCAGTTTTTTGGATGGCACCACCAGCAGNTTTATCC
CCCTGTACCGATCCTCAGAGGAAGAGAAGAGAGTGACAGTTATNAAAGCCCCGCATTACCCAG
GGATNGGGCCCGTGGATGAATCCGGNATCCCCACAGCAATTAGAACGACAGTTGACCGGCCCA
AGGANTGGTACAAGACGATGTTTAAGCAAATTNACATGGTGCACAAGCCGGATGATGACACAG
ANATGTATAATANTCCTTATACATACAATGCAGGTTTGTACAACCCACCCTACAGTGNTCAGT
CACACCCTGCTGCAAAG

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FIGURE 101

CCAATCGCCCGGGGCGGTGGTGCAGGTNTCGGNTAGTCATGGGGTCCCCGTTTCGGGAGACTGC
AGACTAAACCAGTCATTANTTGTTCAGAGCGTTTTGCTAATTTACANTTTTATTTTTTGGGA
TCACTGGCGTTATCCTTNTTGCAGTTGGCATTGTTGGGCAAGGTGAGCCTGGAGAATTANTTTT
NTTTTTTAAATGAGNAGGCCACCAANGTCCCCTTTGTGCTCATTGNTANTGGTACCGTCATTA
TTTTTTTGGGCACCTTTGGTTGTTTTGCTACCTGCCGAGNTTTTGCATGGATGCTAAAACTGT
ATGCAATGTTT

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FIGURE 102

TGTTCCCTGGTGGCAGCGAGGTGGGCGGCGGCGGAGGGAGNTGGACCCCATGGAAGTCCGCGG
GTGAGTGAGACCCGGCGCCACGGTCAATCCCGCAAATTCCTGGGCCCTCCCGACGGCCT
NCCTGCCCTTTTGTTTTAANTTTTTATTAAAATGCTTAGGATACAGATTGANTTTTTTTTGTA
AATGACTGTTTTANTTTTCCTGAAGTAGGANATATATGCACTTTGATAAAACAGAATGAGAAG
TNATAATTCATGGGNATTCNTATACAAGGTGCTGATCCTGTGTTTGGAGCTGAGCTCCTCACA
GCAGNTTTTTTCAGCTATTTT

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FIGURE 103

TGCCGCGTTCATTTTTTTNGCCATTTGGCACATTATAGCATTTGATGAGCTGAAGACTGATTA
CAAGAATCCTATAGACCAGTGTAATACCCTGAATCCCCTTGTANTCCCAGAGTACCTTATCCA
CGCTTTTTTTCTGTGTCANGTTTNTTTGTGCAGCAGAGTGGNTTACANTGGGTTTCAANATGC
CCCTTTTGGCATATCATATTTGGAGGTATATGAGTAGACCAGTGATGGANGCCCCAGGAATTT
ANGACCCTACAACCATTATGAATGCAGATATTNTAGCATATTNTCAGAAGGAAGGATGGTGCA
AAATAGCTTTTTTATTTTTTTAGCATTTTTTTTACTACCTATA

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FIGURE 104

CGGTGGGAATTTAGTTTTTCCAGGATGTGGTTGCCCCCTTCCGNTGTGGGGGGAAAGGGGCCCC
CAGAACCGACCANACCGTGGCAAGAGACCCAGAACCCGAGGACGAAAAATTGTATGAGAAGAA
CCCAGATTCCCATGGTTATGACAAGGACCCCCGTTTTTGGANGTTTGGAAATGCGAATTGTNTT
CTTTCTTTGGCGTNTCCATNATCCTGGTCCTTGGCAGCACCTTTGTGGCCTATTTGCCTGANT
ACAGGATGAAAGAGTGGTCCCGCCGCGAAGCTGAGAGGNTTGTGAAATACCGAGAGGCCAATG
GCCTTCCCATNATGGAATCCAANTGNTTTGACCCAGCAAGATCCAGCTGCCAGAGGATGAGT
GACCAGTTGNTAAGTGGGGNTCAAGAAGCACCGCCTTCCCCACCCCCTGCCTGCCATTTTGAC
CTTTTTTTCAGAG

FIGURE 105

AACTTCGGTGAGGGTGCCGTTANCTGCTGTTCTGCAGNGATTATGGGGATTTTTTTCGGGGG
TTTGTGCGNTANGAATTTGAGGCCGACGCCCATTGGTGTTTCAGAGAGACGCAACAAGAANTTG
AGGACATGGAGAACGAATTTTACTATNGCTACCCAAGNTTCCAGGAAGTGCAAGTGATGGTTT
TNGTGGGCTTCGGCTTCCTCATGACTTTCCTGCAGCGNTACGGNTTTAGCGCCGTGGGCTTNA
ANTTCCTGTTGGCAGCCTTCGGCATCCAGTGGGCGCTGCTCATGCAGGGCTGGTTCCACTTNT
TACAAGACCGCTACATTGTTGTGGNGTGGAGAACCTNATNAACGCTGANTTTTGCGTGGCCT
NTGTTTGCGTGGCCTTTGGGGCAGTTTGGGTAAAGTCAGCCCCATTTCAGCTGCTNATCATGA
CTTTTTTC

FIGURE 106

GGGGAACTTGGGAGGAACATGCAGGAGTGNATTTGTTTTGGTGGGGGTTTTCTGGCCTGGTT
CAGGCCTGCCNTGAGCCCTGGGANTGTGGGGAAAAGTATGGTTTCCAGATNGCCGACTGTGCC
TACCGNGACNTAGAATCCGTGCCGCTGGTTCCCGGCCAATGTGAATACACTGAGCCTGTCAG
CCAACCGGTGCCAGGCTTGCCGGAGGGTGCCTTCAGGGAGGTGCCCCTGCTGCAGTNGCTGTG
GCTGGCACACAATGAGATCCGCACGGTGGCCGCCGGAGCCCTGGCCTTTTTGAGCCATTTCAA
GAGCCTGGACCTCAGCCACAATTTNATTTNTGANTTTGCCTGGAGCGACCTGCACAACCTNGT
TGCTGTCCATTTTGAG

GGGGAACTTGGGAGGAACATGCAGGAGTGNATTTGTTTTGGTGGGGGTTTTCTGGCCTGGTT

FIGURE 107

CCCAAGGGTNCGAAATTTGGAANGTTCATAGGTTCTTCAANGTCCTTCATTCCCTGGTAGACA
AATCCAANATCAACCGACAGTTGGAGGTATANACAAGCGGAGGGACCCTGAGAGTGTGGCTGG
GGAGTATGGGCGGCATTCCCTTTTACAAAATGNTTGGTTANTTCAGCCTGGTCGGGTTTTTCCG
CCTGCANTCCCTGTTAGGAGATTACTACCAGGCCATCAAGGTGCTGGAGAACATCGAACTGAA
CAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACCACATACTATTATGTTGGGTT
TGCATATTTGATGATGCGTTGTTACCAGGATGCCATCCGGGTTTTNGCCAANATCCTCCTTTA
CATCCAGAGGACCAAGAGCATGTTCCAGAGGACCANGTACAAGTATGAGATGATTAACAAGCA
GAATGAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATNGATGA
GAGCATTCACCTCCAGCTGCG

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FIGURE 108

GACCCATCCCANGNGTCCGGAGATCATGAGGATGTTTTTTAATGGCCGGTACATCCTCCTGCT
GATGGGGCTGTTTTTCAGTGTACACTGGCTTCATTTACAACGATGCTTTTCAAAGTCAGTCAAC
CTGTTTCGGNTNTGGGTGGAACGTGTGGCCATGTACAGNTCCAGCCACCCACCCGCAGAGCAT
AAGAAGATGGTGCTTTGGAACGACAGCGTNGTTAGACACAACAGCATTTTGCAGCTGGATCCA
AGCATTCCTGGAGTGTTCCGAGGCCCTTATCCCCTTGGCATTGATCCTATTTGGAANTTGGCC
ACAAATNGCCTCACTTTTNTAAANTNTTTCAAAATGAAAATGTCCGTGATTTTAGGAATCATT
NATATGANTTTTGGAGTCATTTTGGGNATATTTAACCANTTGCANTTCAGGNAGAAGTTCAAC
ATTTACCTGGTTTCCATCCCGGAANTTCTTTTCATGCTNTGTATTTTTTGATACCTA

FIGURE 109

TAAGGCCTTCAGGTCCCCTTCCTTACCCAGGTTTTTCACAGAATGGATTCCCAGCGGGAAAT
TGCAGAGGAANTGCGGCTTTACCAATCCACCCTTTTTTCAGGATGGTNTAAAAGATTTCTGGA
TGAGAAAAAATTNATNGATTGCACCCTAAAAGCAGGGACAAAAGTTTTCTTGCCACAGATTG
ATTTTGTCAGCTTGTAGTCCTTANTTCCGGGAGTACTTTTTATNTGAAATTGATGAGGCGAAA
AAAAAGGAGGTAGTGCTAGACAANGTGGATCCTGCTATANTTGATTTAATCATCAAATACCTG
TACTNTGCCAGTATTGATCTCAATGACGGAAANGTGCAAGATATTTTTGCATTGGCCAGCCGC
TTTCAGATCCCCTCAGTGTTTACTGTNTGCGTTTNTTATNTTCAGAAAAGANTTGCTCCTGGT
AACTGTNTAGCCATCCTAAGATTAGGANTTTTTTTTGACTGCCCGAGANTNGCCATTTNTGCC
CGTGAANTTGTGTCTGATCGCTTTGTACAGATTTGTAAGGNAGAGGANTTTATGCAACTGTTT
CCACAG

FIGURE 110

GCATTATTTGAATGCAGCATGGCAGCTATTATCACCTTAATTGGGAGTGATCCCAGNGGGGT
TCTTTATATTCG TTCATGTCGAGTATTGATGCTTTCTGACTGGTACACGATGCTTTACAACCC
AAGTCCAGATTACGTTACCACAGTACACTGTANTCANGAAGCGTTTACCCACTATATACCATT
GTATTTATTTATTACGCATTNTGCTTGGTATTAANGATGCTGCTCCGACCTCTTNTGGTGAAG
AAGATTGCATGTGGGT TAGGGAAATNTGATCGATTTAAAAGTATTTATGNTGCACTTTACTTT
TTCCCAATTTTAACCGTGCTTCAGGCAGTTGGTGGNGGCCTTTNANAAAANGCCTTCCCATAC
ATTATATTAGTGTTATNTTTGGTTANTCTGGCTGTGNANATGTCTGCTTTTGAAATAGAGAAC
TGCTATGATTTTNTGGTCAGAAAGAAAAGANTTATTGTTNTTTTCAGCCACTGGTTANTTCAT
GCCTATGGAATAATTTCCATTTCCAG

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FIGURE 111

GGTCACTGTGAGCAGGTGGTATTNACAGCCTGCATGACCCTNACGGCCAGCCCTGGGGTGTTTC
CCCGTCACTGTACAGCCACCGCANTGTGTTCTTGANANGTACAGCAACGCCACGCTTTGGTAC
AAGATTTTCACAACTGCCAGAGATGCCAACACAAAATACGCCCCAAGATTACAATCCTTTCTGG
TGTTATAAGGGGGCCATTGGAAAAGTTTATCATGCTTTAAATCCCAAGCTTACAGTGATTGTT
CCAGATGATGACCGTTCATTAATAAAATTTGCATNTCATGCACACCAGTTANTTCCTTTTTGTG
ATGGTGATAACAANGTTTTGCTATGCTGTTATCAAGGGCAG

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FIGURE 112

AAGGGTCCGGTTGGTTCATTTAANGTATATTAAATTGAAAGGGTTNCTTTCAGTCATTGGAAC
AGTTTGTATNATTGGGAACACCCAACCNATGTTAGTAGGATGGGATGTGTTACAGTGTGTTTA
ANACATTNTAAATTACAGNGCATGNGCTTATGTCCGTTGGTTATTTGTTGAGCAGTAAATTTA
GGNGGAATATTTTTTNTATTTTCCTCNANGGGATAGGCAAGCTGTGGGGNAGCACAGGCTTTG
GAGCAAGCAGATTTGATTGTGACCTTATATAAGTTTCAATTTCCCTGTCTGTAATTAGATCCC
CACTTTATTGGGTGTTGTAAGGATTAAATGAAGTAATTTNTGTAAAACATAATGACTGATAC
AAAGTAGNAAATAAGTAAATTTTAAATTTTNTTTTCANTTTTGCACCAGCATAACAGACATAGTA
TGTTTCNTTTTGACCAAACAGAACAGAAATNAGATGTGTAATAATATAAGAGTGANTTAGCAGT
TNTAGTTATTTACCTAATAGAAATGAGTGCATATGTGTGCCAGAAGACATGTATAGGNATGTT
NATAGCAGCATTGCTTGTGATAGCCCCAAAAANTAGAAACACCCACAGATTTAACAACAGTAGA
ATGGATTAATAAATTGTGGTATATTCATAAAATGCAATTTNATTNAACAACAGNAGCGAACAC
AGTANTGGTACACACACC

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FIGURE 113

GCTGGAAATATGGATGTCATCTACGAGAACTGTTTTAAGCCACAGACAATTAAAAGACCTTT
AAATCCTTTGGCTTCTGGTCAAGGGACAAGTGAAGAGNACACTTTTTACAGTTGGCTAGAAGG
TCTCTGTGTAGAAAAAGAGCATTCTACAGACTTATATCTGGCCTACATGCAAGCATTAATGT
GCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAAGAAATGGGGACACAACAT
TACAGAATTTNAACAGCGATTTGATGGAATTTTGAAGGAGAAGGTCCAAGAAGGCTTAA
GAACTTGTATTTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTTACCATTCTTNGA
GCGCCCAGATTTTCAACTNNTTACTGGAAATAAAATTGAGGATGAGGNAAACAAAATGTTACT
TTTGGAATACTTCATGAAATCAAGTCATTTCTTTGCATTTTGTATGAGAATTCATTTTTTTG
CTG

FIGURE 114

CCTTGAAAATTATGGTGTGGCCGGAACCAAANAACCTTTGCTTTATTGGGGACTGGGCNTTNAA
GTTTCCAGGGGCACCTTTTGGNGCCAGCCCCATGCAGGGGATTTTGGGAAGTGTGCAGGTGCC
TGTATGGTTCAGTACCAGAAGTNTTTTGTGGCTTTTGAAGTTNGAGGCAAGGCCTGGGTGCCC
AGGCCGGTGCCCGCNTGGGGTTCAAGCGGACCAGTTCCATGGATTCCCCAGGAGGTCCCCTGC
CCNTCCCCNTGTTCAAAGGAGGGGTGGCGGTGCAGGGGCAACCCCTNGAAAGCGGGGTGTTT
TNTTTTTTNTNGANGCCTTCGGGTGAAACCCTTTTTGNTCCATATGCCCTAAAATTATTTGG
GAAGGCTGGGGAAGTAGGNTTTGGGTCCATGCCTAAATTTGTACCGTTTTATTCCTCAAGGCC
TATAGCCTGTCAATCCTTGAAGCCTTTTTTGCCTGTCCCTCCGATCCTTGTCCACCGTTTATT
TATTGCCCAATTTATTGTTTATACGGATGANTGGGAGGCAATGCACC

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FIGURE 115

GCAGAGGTTGAGCGGCAGAAANATAAAACCCTTGAAAGTGCCTTCCCTGGNTCCAGCCATCAT
CNTCATCCTCCCTGGGGTCGTCANGTTCATGGTNTCCTTCATTGGTGTGCTGGNGTCCCTCCC
GTGACAACCTGTACCTTTTCCCAAGCATTGANGTACATCCTTGGGATTTGCCTNATCATGGAG
CTCATTGGTGGNGGGTGGCCTTGACCTTCCGGAACCAGACCATTGANTTCCTGAACGACAAC
ATTTGAAGAGGAATTGAGAACTACTATGATGATTTGGANTTCAAAAANATCATGGANTTTGTT
CAGAAAAAGTTCAAGTGCTGTGGCGGGGAGGANTACCGAGATTGGAGCAAGAATCAGTACCAC
GANTGCAGTGCCCCCTGGACCCCTGGC

[illegible]

FIGURE 117

GGGTGGAATCCCAATTTTTGGGGGGAAGNTTCCGGAGGTTCANTTAAGGGAAGNAATTTCAA
AATGAAAATTCAAAGTAGTGTTNGCCCAGAGTTGATTGTGGTCAGCATTTNGANATAGCCCAG
AGATACAGGATAAGCAAATACCCAAACCTTNAATTGTTTNGTAAATGGGATGATGATGAAGA
GAGAATANAGGGTTCAGNGATCAGTGAAAGCATTGGCAGATAACATNAGGCAACAAAAAGTG
ACCCCATTNAAAGAAATTCGGGANNTAGCAGAAATCACCANTTTTGATNGNAGCAAAAGAAATA
TNATTGGATATTTTGAGCAAAAGGANTNGGACAACCTATAGAGTTTTTGAANGAGTAGNGAATA
TTTTGCATGATGACTGTGCCTTTTTTTTTTGCATTTGGGGATGTTTCAAAACCGGAAAGATATA
GTGGNGACANATAATTTACAAACCACCAGGGCATTTTGNTCCGGATATGGTGTANTTGGG

FIGURE 118

AAAGCCCAAGTTACCAGCTGTTCAAAAAACAGTNGNGATTTTCAGTTTCACGATTGTTGACCCG
GTGATTTCCCCAGTGCTGAACATTATGGTNATTCAAACAGNAACAGACCGACATATAACATTA
CATTGCCTTTCAGTCAATGGNTCGNTGCCCATCAATTACACTTTTTTTTGAAAACCATGTTGCC
ATATCACCAGGTATTTCCAAGTATGACAGGGAGCCCGAACCCCTTGC

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FIGURE 119

ATATGCAGAGAGACTGGGTGNTCCGAGCTCCANTCAGGTGAAAGAATTTGCGGCAATTGTTGA
NGTGAAAGGAGAATTTTATTACATTTTGGATCCAAAGCAAGCACTGATGAAGCTCACCTAGG
TANTGCAGGCAGTTTATTTCCCAAGCATTGTACATTTTGNTTGANTTCATATGGAGTTTTTT
ATTCAAAANTTCAGC

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GTTATTGTGAACTTTGTGGAGATGGGAGGTCNTGGGGCTGTGTTCCATGGCGAGCTGGATACC
 ANGTTTGTGTGGAAGTGCCCCGTGTTTGNTATGCCGATGCTGTCCTAGTGGAACAANTCCAC
 TGTAATTAGATTGATNTATGCACTTTTNTTGCTTGTTGGAGTANGTGTAGCTTGTGTAATGTT
 GATACCAGGAATGGAAGAACAACCTGAATAAGATTCTGGATTTTGTGAGAATGAGAAAGGTGT
 TGTCCCTTGTAACATTTTGGTTGGCTATAAAGCTGTATATNGTTTGTGCTTTGGTTTGGCTAN
 GTTCTATNTTCTTCTCTTTACTAATGATCAAAGTGAAGAGTAGCAGTGATCCTAGAGCTGC
 AGTGCACAATGGATTTTGGTTTTTTAAATTTGCTGCAGCAATTGCAATTATTATTGGGGC

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FIGURE 121

TGGAGATAAGAGGTTACAGCAAATTACATGATGACCTAGGAGAGTTTCCATATGGATNGTTTG
AANTTGTNGCTAGTANAAAATCTTTCCTNTTTTTTCACTGACATGTTNATTTANTGGATTCACA
GAGGCCTTCATNATAGACTGGTATATAAGCGCCTANATAAACCTCACCATATTTGGAGATTCC
TANTCCATTTGCAAGTCNTGCTTTTCACCCTATTGATGGC

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FIGURE 122

TGCGCCTGGCCTGATGGTTCANTTTTTTTTAAANTTTTTTATCAGTACAAATTATGGGATAAC
ATATGAAATTTTATTATGTGTATGTAATGCATAGTGATAAAGTCAAGGTATTTACGGTGTCCA
TAACCCAAATACAATACATTTTTTGTAAGTATAGTCACCCTGCTTTTTTATCAAACATTGAATT
TATTCCTTNTATNTTATTTATGTGTGTANTTTTAAACACANTTCTCTTCATCTTCCCTTCTCC
TCCAATCACCCCTTCCCGTCC

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AGAAGGGGGGGTGAAGTGGTTGCCAGTAATGGCCAGAAACCAACCACCAGAGGCCAGGNTG
AAAGACAAGNTCCGGGTGTCTTGGGGCTGACGGGCCAACCATGTGGCAGGTCCCAGGCCCCAC
CCANTGCGCCATCCGCCTTTGAGCTCCACAGTGGTCCCCTAATGGGAACCTCCTTTAGGGAG
AGTGATACTGCACCTTCACCCGTAGGAATNATATTTATAACAATGTGTAATGGCTGTAGCAAA
AAGCCCTTGTTTTTAGATGTAAATGGTCAAAGAAACAAGCGCTTTATTGTTTTGAATAAAATA
GTTCAAATGAGTCCTGTATCATTGTATNTCCTATTNTGGATTAGTGCCTTTTGGACGATTG

FIGURE 124

ATGGAAAATTTTTTTTAGGGGGGGGTGGTTCNTGAGCGAAGGTGGGCGGACGNGNGGGGGGATT
TTTTTNTGGCCCTGTTCTTCNGAGCGTTCGCGCGTTGCCCGCCTGGCCCCCTACGGAGTCNTT
AGCCAGGATGGAGGCTGTTGTGAANTTGTACCAAGAGGTGATGAAGCANGCAGATCCCCGGAT
CCAGGGNTACCCCTTGATGGGGTCCCCCTTGCTAANGACCTCCATTTTCCTGACCTANGTGTA
NTTGTGTTTTNTCANTTGGGCCTNGCATCATGGCTAATCGGAAGCCCTTCCAGCTCCGTGGNTT
NATGATTGTTTACAANTTNTCACTGGTGGCANTNTCCCTTTACATTGTTTATGAGTTCCTGAT
GTCGGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGAATATTCCAACAGCC

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FIGURE 125

AAGTAGGGAAGTGTATTTCCAGNTACAGATTTGATCCCGTTGGAGTGGATATCACTTCGAAAG
GAAAAATGAGAGCAAGATATGTGAATTACATCAAAACATCAGAGGTTGTCAGACTGCCCTATC
CTCTCCAAATGAAATCTTCAGGTCCACTTCTTACTTTATTAAAAGGGAATNGTGGGGCTGGAC
AGACTTTCTAATGAACCCAATGGTTATGATGATGGTTNTTCCTTTATTGATATTTGTGCTTNT
GCCTAAAGTGGTCAACACAAGTGATCCTGACATGAGACGGGAAATGGAGCAGTCAATGAATAT
GCTGAATTCCAACCATGAGTTGCCTGATGTTTCTGAGTTCATGACAAGACTNNTNTCTTCAAA
ATCATTTGGCAAATTTAGCAGCGGCAGCAGTAAAACAGGCAAAGTGGGGCTGGCAAAGGAG

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FIGURE 126

CTTTCCCCCTGGCGGTGAGAGTGCAGAGACGAAGTGCAGAGATGAGCATTATGTTTCGCGGACAT
CTCCTCATCGTTTTTTATCTCNGNGTGCACGGTNTGTTNGCAGAGGGCANAACCTGGGTCCTGG
TTTACAGGACAGACAAGTACAAGAGANTGAAGGCAGAAGTGGAAAAACAGAGTAAAAAATTGG
AAAAGAAGAAGGAAACAATAACAGAGTCAGNTGGTNGACAACAGAAAAAGAAAATAGAGAGAC
AAGAAGAGAACTGAAGAATAACAACAGAGATTTATCAATGGTTNGAATGAAATCCATGTTTG
TTATTGGCTTTTGTTTTACTGCCCTAATGGGAATGTTCAATTCCATATTTGATGGTAGAGTGG
TGGCAAAGCTTCCTTTTAC

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FIGURE 127

Table 1	
Summary of the study	
Study design	Retrospective cohort study
Study period	1990-1999
Study location	United States
Study population	1,000,000
Study variables	Age, sex, race, education, income, occupation, health status, lifestyle factors, environmental factors, social factors, genetic factors, clinical factors, laboratory factors, imaging factors, treatment factors, outcome factors
Study results	See text for details
Study conclusions	See text for details

FIGURE 128

ATTTCCCTTCCTTTTTTCCCGCCCNGTATTTTTTTTNAACCTTTTCCACCTTTGNTTGGGT
AGCCATGGGGGGAGCCGTNGGGGGCAATCAGTCCCATTCCATTTCTTGTGTCCNTTGGGAG
CCGAGCCGTTCCGCGCCCGGTGGNGGCGGGAGCCCAGGAGCCTGCCCNGCCTGGGGANGAAGA
GTGCAGTTCCTTCNTGGCGGTGCACGATNTGATTTTNTGGAGAGATGTGAAGAAGACTGGGTTT
GTTTTTGGCACCACGCTGATCATGCTGCTTTCCTGGCAGCTTTCAGTGTNATCAGTGTGGTT
TCTTACCTCATCCTGGNTTTTCTCTCTGTCACCATCAGNTTCAGGATTTACAAGTCCGTNATC
CAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGANGTAGACATTAAT
TNTGTCCTCAGAAGCTTTCATAATTACATGAATGCTGCCATGGTGCANATCAACAGGGCCCT
GAAANTCATTATTTGTCTNTTTNTGGTAGAAGATTTGGTTGANTCCTTGAAGCTGGC

FIGURE 129

TGTTCCCTCAATCCAATTTCCGGATTTTAGAATGCCCGTAAAAAATTTATAATTTTANTNTCAA
GAAANATTTTACCAGGGGCAATTGTAAAGGTTTTATTAATTTTAAACCTTTGGCCTTTTTTTT
TAAGTAAGGCAATTAATATAAATGTAAATATACAATATTAACAAACNTGGTTTCCAGNTTGT
ACATTTAGTAAATATTTAATATTAATTACGAGTTATTGAGGTTTAAAGTAGGCTGTGCATGTG
TAATTATATTTTATTATGTTTCAGTTTTCCATGGCAATTGCCTAGTTTTTAAAGTTTATTATAA
TCCTTATGTTTGTGATNTTTTTTTCATANTTTATTATTTACAGGAGTCCAGNTANTTGCTNTTT
TAGTTCCCANTTTGATATTTTACCTGNTGGATGAAAATTTTTTTGCCTCAGCAAGTTCAGCTT
CCAAAGATTTTCATGAGTTTGCANTCCAGAAATTTAATGCATATTGGACCTNTGTATCCACATG
CTTTCAAGACAGTAATGGGGGC

FIGURE 130

AAATAAAATTTTTCATCCCATTTATGCATTTTGTTTGTAATGTAAATTTTAAAAATATGGTTAA
TAACATTTCAACCTGTTTATTACAACCTAAAAGGAATTCAGTGAATTTGTTTTTATTTTTTAA
CAAGATTTGTGAACTGAATATCATGAACCATGTTTTGATACCCCTTTTTCACGTTGTGCCAAC
GGAATAGGGTGTTTGATATTTTTTCATATGTTAAGGAGATGCTTCAAAATGTCAATTGCTTTA
AACTTAAATTACCTNTCAAGAGACCAAGGTACATTTACCTCATTGTGTATATAATGTTTAATA
TTTGTGAGAGCATTTNTCCAGGTTTGCAGTTTTATTTCTATAAAGTATGGGTATTATGTTGCTC
AGTTACTCAAATGGTACTGTATTGTTTATATTTGTACCCCAAATAACATCG

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FIGURE 131

GGGGGGGGTGAAAGTGGCTGCCAGTAATGGCCAGAAACCAACCACCAGAGGCCAGGCTGAAAG
ACAAGCTCCGGGTGTCCAGGGGCTGACGGGCCAACCATGTGGCAGGTCCCAGGCCCCACCCAN
TGCGCCATCCGCCTTTGAGCTCCACAGTGGTCCCACCTAATGGGAACCTCCTTTAGGGAGAGTG
ATACTGCACCTTCACCCGTAGGACTCATATTTATAACAATGTGTAATGGCTGTAGCAAAAAGC
CCTTGTTTNTAGATGTAAATGGTCAAAGAAACAAGCGCTTTATTGTTTTGAATAAAATAGTTC
AAATGAGTCCTGTATCATTGTATCTCCTATTNTGGATTAGTGCCTTTTGGACGATTG

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FIGURE 132

GGATATCTTTTTCCATCCCTTTATTTTCAGTCNATGNGTGTCTTTATAGGTGAAATGNGTTTC
TTGTGGGCAACAGATCAATGGGTCTTGTTTTNACATCTATTCAGCCAGTCTATGTCTTTTGTT
TGGAGAGTTTAGTCGATTTATGGTCAANGTTATTATTGATAAGTAATGATTTCTCCCAGTTTT
TTTTCTGGTTGTTTNGTGGTCTTCTCTTCTTTCTTTCTTTCTTTCTTTCCTTCCCGCTCCCAG

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FIGURE 133

GTATGTACATGTGTATGGTGTGTGCATGTAGGTGTGGTGTGCGTGTGCGTGGTGTGNGTGCAT
GTGTATGTGTGTGGCATGTATGTGTACGGTATGTATATGTGTGGTGTGTGTGCANGTGTGTGT
ATGTGTGTTTTTG

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FIGURE 134

GGGGAAAAATATCTGTTACAAATTTATAATTTCAAGACAAATTGAATCTTATTTTATAATACT
TTTGGAATTTCATTAAATAAGGCTAAAATTTGAGGAATATAAATAATTTTCAGCCTTAAGACAT
NTAAGTTTGGAAGTCCTTGCTATTCAACAGAATAACAAGAAAAC TTCAGAATGTATCACTNTC
CTGAAAAGAAGATATTAATAAGCCCTTTTATTTATGGTTATAGTTTTATTTATAGTCTCAAAA
TTCCTAAAGCAATGCTACAACCATTGAATTTGCCATATTTTGTATCAGTGCTGTTAATTTGCT
GTTGCCTCAAGAAAAAGTGCTTTTTCTCCATGGATGAGGCTAGACCCTCGN

GGGGAAAAATATCTGTTACAAATTTATAATTTCAAGACAAATTGAATCTTATTTTATAATACT

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FIGURE 135

AGGGGGTTCTTGACATTTTGTTCAAATCCTNGTAACAATCTGTCTTTAGCTTTATTTTNTGAG
AAACTGAGCAAACCTGTTTCCATTGCCTTCTTAGAAGGGTTCATGTATATAGCACTACAGAAG
CATAATGAAGTTTCTCAGCTCCCAAATTATNGTTATTATACTGCTATTATAC

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FIGURE 136

TATTCGCGATTGACTCCTCTTNCTAAGTGTGCGGCCCCNTTTAGAGCAGCGATNTAAGAGAGC
CGTCCCCGGTGTCTCGGGTCCCAGTGATTGTGAAGTGCTGCCAATTGCCACTGGACATACTTG
AAACAAAATAGGAAAATGGCAGCAAACCTCTTCAGGACAAGGTTTTCAAACAAAATAGAGTT
GCAATCTTGGCAGAACTGGACAAAGAGAAAAGAAAACCTACTTATGCAGAACCAGTCTTCAACA
AATCATCCTGGAGCTAGCATTGCACTCTCGAGACCCTCTCTTAATAAGGACTTCCGGGATCAC
GCTGAGCAGCAGCATATTGCAGCCCAACAGAAGGCAGCTTTGCAGCATGCTCATGCACATTCA
TCTGGATACTTCATCACTCAAGACTCTGCATTTGGGAACCTTATTCTTCCTGTTTTACCTCGC
CTTGACCCAGAATGAAGAAAACATTTGCGATGGAAAAGTGAC

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FIGURE 137

CTTGAGCGAGCCAGTTGCCGATTATTCTATTTCCCTCCCTCTCTCCCGCCCCGTATCTCTT
TTCACCCTTCTCCCACCCTCGCTCGCGTAGCCATGGCGGAGCCGTGGGCGGCCACTCAGTCCC
ATTCCATCTCCTCGTCGTCTTTCGGAGCCGAGCCGTCCGCGCCCGGCGGCGGGAGCCCAG
GAGCCTGCCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCCTGTGCGGTGCACGATCTGATTT
TCTGGAGAGATGTGAAGAAGACTGGGTTTTGTCTTTGGCACACGCTGATCATGCTGCTTTCCC
TGGCAGCTTTTCAGTGTCATCAGTGTGGTTTTCTTACCTCATCCTGGCTCTTCTCTCTGTACCA
TCAGCTTCAGGATCTACAAGTCCGTTCATCCAAGCTGTACAGAAGTCAGAAAGAAGGCCATCCAT
TCAAAGCCTACCTGGACGTAGACATTACTCTGTCTCAGAAAGCTTTCCATAATTACATGAATG
CTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATTATTCGTCTCTTTCTGGTAGAAGATC
TGGTTGACTCCTTGAAGCTGGCTGTCTTCAT

FIGURE 138

CCTTAGCAGACATGCAAAAGCTTATTCTTGTGTGACTTACTTTCTTTAAGCTAATAATATAAA
AATAAATATGTATCTTAAAAATCTATAATAAAACATTAGAAATTAAAGATATGTGCTTTTTAT
TTTGCAGATGAGTTCATTTGCTTTTGTAGATGTGTTTTTCAGAGCTAGGTACAGAGGAATGTTT
GCTACCTTTAGCGGTGAAAAAGAAAGAGAGTCAAGAATTTTGTGGATTGTGTTTGTGTGTG
CATATATTTGATATCATCATTATATTTGTAATCTTTGGACTTGTAATCATAGCCTGTTTATTC
TACTG

FIGURE 139

CGGACGCGTGGGCTGCTTGCCGCCCTCTTTGGATACCTAACATTTTACGAACATGTTGAGTCA
GAATTGCTTCATACCTACTCTTCTATCTTGGAAGTATGATATTCTTCTTCATTGTCCGTCTG
GCTGTGTTAATGGCTGTGACCCCTGACAGTACCAGTAGTTATTTTCCCAATCCGGAGTTCTGTA
ACTCACTTGTTGTGTGCATCAAAAGATTTTCAAGTTGGTGGCGTCATAGTCTCATTACAGTGTCT
ATCTTGGCATTACCAATTTACTTGTGCATCTTTGTCCCAACTATTAGGGATATCTTTGGTTTT
ATTGGTGCATCTGCAGCTTCTATGTTGATTTTTATTCTTCCTTCTGCCTTCTATATCAAGTTG
GTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCCTGTTAAGTGGT
GTAAGTGGTATGACCGGAAGCATGGCCTTGATTGTTTTGGATTGGGTACACAATGC

FIGURE 140

ACTTCAATGTNTACACATGGCCATTGAAAAATACAGAGTTTACAGAATTATTTTCAGAGAAGTC
ATTAAAGAAACAAACATTAACACACCCTGCAGAGTGGGGGAG

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FIGURE 141

TCCCCGCTGCTGACGCTTCATCCCCCACACCTCCAGCCCCAGTTACCTGGAGCTTCTCAGAAC
CCACTTTGCCGGTGCTAAAAACAAGAGGGGGTGAAAGTGGCTGCCAGTAATGGCCAGAAACC
AACCACCAGAGGCCAGGCTGAAAGACAAGCTCCGGGTGTCCAGGGGCTGACGGGCCAACCATG
TGGCAGGTCCCAGGCCCCACCCACTGCGCCATCCGCCCTCTGAGCTCCACAGTGGTCCCCTAA
TGGGAACCTCCTCTAGGGAGAGTGATACTGCACCTTCACCCGTAGGACTCATATTTATAACAA
TGTGTAATGGCTGTAGCAAAAAGCCCTTGTTTCTAGATGTAAATGGTCAAAGAAACAAGCGCT
CTATTGTTTTGAATAAAATAGTTCAAATGAGTCCTGTATCATTGTATCTCCTATTCTGGATTA
GTGCCTTTTGGACAGTAGACTGTTCTGTAAAA

FIGURE 142

TCCATGTGAATTTTGCTTAATGGAATGCTTTATTTAAGCATTTAGGCAGAGTTGACACANTTA
AAGGTACAAAGCCCAGAGGAATTGGTAGAGCAGCACCGTGCNTGCCNTGAGGCAGTGGAGTCA
GTAGCGTTGTCCCCAGGGCCTTGAGTGCCTGGAGGTGCTTGGCCTCCAGTAGCTGCCTCCATT
CTCTTTTAAAAAAGGGGGTGATTCTGAGGCACTGAAGTGCCTCCCAGATGTGGAGGAGTGAA
GCCACCATCGAGGCCACACTCAGCACTCCAGGATCCCAGCGATGTCAGACACTCTTGAGTTGT
CAAAACGTTAATTTTCAGTTTAAATAATCAGTTTATCTAAGAAAAGGGAATTTTAACTTTTC
TACCTTGAGCCAAGCCAATGAAGGGAAAATTAATTAACCTTAGTAAATTTGAAGTGCAGCTCTG
TTAGCTCGTACATGTGGGTTCTTATCCTGATCCTGTGCCTTAAAGTAGGAAGGTGTTTCCAAG
TTCAGATTAAAATAGAAGCAGCTGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTT
GGGAGGCCGAG

FIGURE 143

CAAGAGTCTCGCTCCAGCCTGGTGATAGAGCAAGACTCCGTCTAAAAAAAAAAACCAGGAGTGA
NAAAAATAAGAGTCATTGAACTTCATTTTTTTTAAAAAGAATATCACTTTGCTGTCCTTTCAA
ATATAGCATTTCCCCAATTAGGTACCTGTTTATTGAGATTTTATAATGTAGGTAAATTTTTAA
TCAGTTTTTTAATTGATACCTAATTAACCTCGAGCTCTTGTCCTCCTGCCTTTTTTTCATTCTT
TACTCTTGCAGCATTCCCTTCTAGTACCTTCTGTATGTACACTACGTTGATAGCCATGACTGG
ATGGTATATGGACAGGACTTCCATTGCTGTGCTGGGAGTAGCAGCTGGGGCTATCTTAGGCTG
GCCATTCAGTGCAGCTCTTGGTTTACCCATTGCCTTTGATTTGCTGGTCATGAAACACAGGTG
GAAGAGTTTCTTTCATTGGTCGCTGATGGCCCTCATACTATTTCTGGTGCCTGTGGTGGTCAT
TGACAGCTACTATTATGGGAAAGTTGGTGATTGCACCACTCAACATTGTTTTGTATAATGTCT
TTRACTCCTCATGGACCTGATCTTTATGGTACAGAACCCTGGTATTTCTATTTAATTAATGGAT
TTCTCAATTTCAATGTAGCCTTTGCTTTGGCTCTCCTAGTCCTACCACTGACTTCTCTTATGG
AATACCTGCTGCAGAGATTTTCATGTTTACAATTTAGGCCACCCGTATTGGCTTACCTTGGCTC
CAATGTATATTTGGTTTATAATTTTCTTCATCCAGCCTCACAAAGATGAGAGATTTCTTTTCC
CTGTGTATCCACTTATATGTCTCTGTGGCGCTGTGGCTCTCTCTGCACTTCAGAAATGTTACC
ACTTTGTGTTTCAACGATATCGCCTGGAGCACTATACTGTGACATCGAATTGGCTGGCATTAG
GAACTGTCTTCCTGTTTGGGCTCTTGTCATTTTCTCGCTCTGTGGCACTGTTTCAAG

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AATTGGTAGTCCCTGTTCTTTTCATGGTTTTCTGGCTCGTCTTATTTGNTCTTCAGATTTACT
CCNTATTTTCNAGTACTTNGAGATCAGCNTGCATAACGTGAGAGGTTTCTTTTCCTTTTCTGA
CAAGTATTGCGGAATGTTGCAGCAACTCCTTACTCTCTTTTGGGTTTGGTCTTCACGGTTTCT
TTTGTGTCCTTGGGTGTTCTCAACACTNTGCAAGTTTTACTTGCAGGGTTATCGAGCTTTCAT
GAATGATCCTGCCATGAATCGGGGCATGACAGAAGGAGTAACGCTGTTAATCCTGGCAGTGCA
GANTGGGCTGATAGAACTGCAGGTGTTTCATCGGGCATTCTTGCTCAGTATTATCCTTTTCAT
TGTCGTAGCTTCTATCCTACAGTCTATGTTAGAAATTGCAGATCCTATTGTTTTGGCACTGGG
AGCATNTAGAGACAAGAGCTTGTGGAAACACTTCCGTGCTGTAAGCCTTTGTTTATTTTTATT
GGTATTCCTGCTTATATGGCTTATATGATTTGCCAGTTTTTCCACATGGATTTTTGGCTTCT
TATCATTATTTCCAGCAGCATTCTTACCTCTCTTCAGGTTCTGGG

FIGURE 145

AAAAAAAAAAACCAAAACCAAAACAGAACGCTTGTTCAAGTTTGTCTGTCTGTCCATGG
 ATAGGCCAGACCTTTGGTCCAGAAATTCAGTTTTTCATTGTGTCTGACATAGNGACTCCATAA
 TGTTGGTTCCATTCTCTTTTCTTCCTCAANATCATGTGTTTTGTGGGTCTTTGTTTTGTTTTG
 TTTTGTTTTGTTTTGTTTTGTTTTGTTAGAGTTGGAGTCTTGCTGTGTTGCCCAAGNTGATN
 TCCAATTCCTGACCTCAAACAGGTNTNTCACCTTGGCCTNCCAAAGTGNTGGGAATTCAGNG
 TGAACACCTCACCCAGCCAAGNTCACATTTTGAATCTAANTTTTTTTTTTGAAACAGTGTCTT
 GCATTGTTGCCCAGGCTGGAATGCAGTGGTGCCATCATGGCTCACTGCAGCCTCAACTTCC

FIGURE 146

GGCAGTCTCCTAGCTGCTCTTACACACTGCATAGCTGTGTGTGAGTACTCTTTTCATCCATCA
GTCAGCCAGGGTTTGCAGGACAGATCCGGCAAGTGGTGCCCTGTATGAGGAATGCTGCAACGG
ATCTGGACTGAACCCNTCAAAAATAAAGTGATTGCTCAGTCCTCTTTGGATTTCTGCGCGACA
TATGAAACCATAACCATGGCATGGCTGGAACCCAACCCGGTACCAAAAATAAAGGAAATGACCC
TGCAGGACCTGCAGCCCCAAAACGATGCGGCTTCCTCGGACGACACAGGCCCCGGACATTATG
CTGAAGAAGACAACCTCAGGAAGCTGAGCAAATCCTGCTCCAGACACAAACACCATTCACTCCA
GATAATCTGTTCTTGCTATGCCCTCCGTTGTACATTGCAACACTCACAGGGTATTGGTTTTT
CTTATTCTCTCACTCTGCCTGCAACTCGTACCTGCTAC

FIGURE 147

TTTTTTTTTTGTGTTGTCTATAGGAATTAAGTTGGGATTGTTTTGTGGGTTTTTGTGGTTTTT
AAATGTAAATTGAGAATCTTTTATAAGAAATAAAAGCATTATTGGGTGCCTTTGTTTGTAAC
CAAAAAGTAATAAATGAATCCCTATATTTCCATTATAGTATTTATTGTATTTTTATGTTCTGA
AAATTACCCATGGAACAATATGCTTAGGATTACAGGAAGCAGTCCTTACTTACACTTCTTGTC
TGTTTTAGGTGTACTTGTTAATTC

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FIGURE 148

GTTGTATACTAATCAACCATTCTGCAACCTGCTTTTCTGATTTAATCTAGAACAACCTCATTC
TTGTGTATAGTACACCTCACACCACTATATTGGCTTGGTATAATAACTTTCCTCAACTGGCTTTT
GTCTCAGCCATGGGCAGTTTCTTTTCTGACCATCCATCTGGCCTCAGGTTCCTTGGAGTCTT
CCTTTCTCCAGCAGTCCTTCTCTGTCTTTGTATATCTCCAGGCTTTAGCAATACGCTCACTCT
ATTTTCTTTTTTTTGATTTCACTTTTTTAAATTAAAGTATTGTAAACTGGCTTTTTTGGTGCAC
AGTTTTGAGAATTTTCAGTACATGAACACATTTGTGTTCCCACCACCACAATCAAGACAGAGGG
CCGTTTTATTGTCCCCAAAGCTCCACATGCTATCCTTTCAGGTCTACTTCCTTTTTTACTGTTT
TTGTAATCAC

FIGURE 149

AGAATAATTTTTTAAACACAAATTCACCATGTTTCTCTACTAACTTGGAATGCTTAATGTGTT
CCCATTGTACCTAGAATAAATCCAACTTACTTTCCAGGGTCTGCTCTCCAAGCTGTACATGA
CCTGGCCCATAGCCACCTTTCTAAACTCGTCACATCCATTNTCCTCATTGCTCATGGTGCTGT
GGACAGTCTGGTTCCTTTCTGTTNTTCTCCACTACCAAGCTCATTCACACTGCCCCTTTTCCA
AGGCCCTTCCCTACAC

CCCTTCCCTACAC

FIGURE 150

GTAGGTTAGGGTCCTTAAAGGAACCTTACTTTGGATTTATTGGCAAAATTATTGTGGGCACCTT
ACCCATTGNGAAATTATTTTTAGAGGCTTGTA AAAANTTTAAAGTTTAGATNTTATTTGCCTTG
NTAATNTATTTAACTTTATGGAAAGTATTTACTGCTTCTGATCAGGATTTTTTGTGTGCTGTC
AAAGTAAAAGTCACTACCAGTGTCACTATTTGNTATGGAAGCCACAAACCTTGTAGTCATTTTC
TTAATTATTTTTCTTTCTTTTATTTTTCCATTCCCACATTCCCTTCTCATCCCCCTTTTAATTCA
TTAGCAAGTATGCTGCCAGTTCTGCTTAGTCCGTCTCTCTCCCTCCACTGGTAAACNTAGCC
CAAACCATCTTCATCTCTTATCTGTACTAACGCAAGAGCCCCTTAACTGGTATCCCTCCTTCC
ATTTCTTGATCTACTAAAATCCATACGCCACATAGTGGCTAGAATAATTTTTTAAACACAAAT
TCACCATGTTTCTCTACTAACTTGGAATGCTTAATGTGTTCCCATTTGTACCTAGAATAAATCC
AACTTACTTTCCAGGGTCTGCTCTCCAAGCTGTACATGACCTGGCCCATAGCCACCTTTCTA
AACTCGTCACATCCATTCTCCTCATTGCTCATGGTGCTGTGGACAGTCTGGTTCCTTTCTGTT
CTTCTCCACTACCAAGCTCATTCACTGCCCCCTTTTCCAAGGCCCTTCCCTACAC

FIGURE 151

TTTTGTCATTTTGAAATTTTTTTTTTTTTCACCAGCCCTGAATTTTAGTTTCATCCATGGATAA
ACTATTACTTTTCTTATTTTCTTTAACTATACAATTAAGAC

FIGURE 152

TCCTTGGAACATTTTTNTAGGGATATTTCCATTTGACTTTATTAGATTAATGAAATTGGGAAA
CCTGGACGTATATNTAAACTATACTTTTTGANTATGAGCATAACCTTTTATTTCTGTATTTT
AGAAAAAGNGACCATGTTGTGATGGCAATCATTGTGCTTNTGCATACCCAGNTGAATGTCTGT
GGAAACTCAGTTATTCTTTTAAATAGTTATTATCAGAGATATAATTATTTACAAAGTAGTTTT
TTTGTTTGTAGGTAAACTATTATAGATTTTGCTGTTCTCCCAACTGTTTTCTTGGTGTATATT
TTGAAAATATAAACCTTAAATGTTAGAACAAAGAAAACAAAAGCAAAACCCGAAAACCTTAAC
TGTGCTTGTAACATTTAAAATATTTTTGTTAGTTTCTCTCAATTGAGTAAGAGAACCTGGCT
TTCCACAGCAATGATCCAGGCTTTGGTAATACCCCCCTTTATGTCTCTGTACTTCTGCCATT
CTAAAGTTGATTTATTGTTTGTTACTTTTAGTGATTTTAAGTGCTCAATGAAGTTCCTTGGCT
TTCTCATGGCTTTTCATTTCCAATAATTACCTAGCCTTTCTTTAATGTCTTCCACCCTTAC

FIGURE 153

TATTTAAAGCAATCTTAGTGGTATACCCCGCCCCTTTGCCTTANTTAAGAGGAGCANTGAAAT
GNATATACTTGCTGTTTCAGTATTTCCAAGTACCCATTTTTATATAGTAGCTTATTTGACCATA
AGTCACACATCAAAAAAAGATTACCCCTTAGTGTATGTGTTTTAATNTTAGAAAATNTGGCAT
ATGTACTTTATTTTTTGAAAAGGGAAGAGATGGGTGTGGGGTGGCAATAGCATTGTGCCATTTT
GTCATAGAATGTAAAAATTGGTTAACTTTACAAATGTCAGCTAGTTTTGACTACTAATTGGGG
GAAATTTTAGATAATTTTTAAATTCAAAGTTATTTATAAAATGCTAGAATTTGTTTTAATTTT
TTTGTATTTTGAGCCACTTCACATGAAGACTCAGTTGCATTTTTATCGAATACATTTTTATCA
ACAGTTAAAGACTATGGTGGTTTTTTTCAGAGTTTGGCTAAGAATGTTGTTACCATCTTCTTT
GTTTGTGGTACAATATTT

FIGURE 154

AATCTATTTAAACTTTTATGGAAAGTATTTAACTGGNTTCTGGATCAGGATTTTTTTTGTGTTGC
TNTCAAAGTAAAAGTCACTTACCAGTGTCANTATTTGGTTATGGAAGCCAACAAACCTTG TAG
TCATTTCTTAATTATTTTTTCNTTCTNNTANTTTTCCATTCCCACATTCCCCTNTCATCCCCCTT
TTAATTCATTAGCAAGTATGCTGCCAGTTCTGNTTAGTCCGTCTCTCTCCCTCCACTGGTAAA
CCCTAGCCCCAAACCATCTTCATCTTCTTATCTGTACTAACGCAAGAGCCCCCTTAACTGGTATC
CCTCCTTCCATTTCTTGATCTACTAAAATCCATACGCCACATAGTGGCTAGAATAATTTTTTTA
AACACAAATTCACCATGTTTCTCTACTAACTTGGAATGCTTAATGTGTTCCCATTGTACCTAG
AATAAATCCAAACTTACTTTCCAGGGTCTGCTCTCCAAGCTGTACATGACCTGGCCCATAGCC
ACCTTTCTAAACTCGTACATCCATTCTCCTCATTGCTCATGGTGCTGTGGACAGTCTGGTTC
CTTTCTGTTCTTCTCCACTACCAAGCTCATTCACACTGCCCTTTTCCAAGGCCCTTCCCTACAC

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FIGURE 155

TTTTTTATCATTTTGAACTTTATGGANAAATTGGGCAGCCAAAACGCTTCCCGGGGAAGGNGC
CAGCGAAGAATGCATCCTAACGTTAGTNAAGGNTGCCAAGGAGGNTGTGCAACATGNTCAGAT
TACAATGGATGTTTGTGTCATGTAAGCCCAGANTATTTTTTGTCTTCTGGAAAGAATTGGCATGAA
GCAGATTGGAGTATGTCTCTCTTCATGTCCAAGTGGATATTATGGAACCTCGATATCCAGATAT
AAATAAGTGTACAAAATGCAAAGCTGACTGTGATACCTGTTTCAACAAAAATTTCTGCACAAA
ATGTAAAAGTGGATTTTACTTACACCTTGGAAAGTGCCTTGACAATTGCCCAGAAGGGTTGGA
AGCCAACAACCATANTATGGAGTGTGTCAGTATTGTGCACTGTGAGGTCAGTGAATGGAATCC
TTGGAGTCCATGCACGAAGAAGGGAAAAACATGTGGNTTCAAAGAGGGACTGAAACACGGGT
CCGAGAAATAATACAGCATCCTTCAGCAAAGGGTAACCTATGTCCCCCAACAAA

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FIGURE 156

ATCNANGTGGATGCAGTCTTCATTGACANAAGTAACCTGGANATCACTCCGGACNANCCCCGC
TGGATCNGAGCCTGGTGGGGTGGCTTTCNGCTCTGCGGTGCCTTACACTTCNTCNNTTCCCTC
TTGATGTTTGGGTTTCCACAGTCCCTGCCCCGCACTCAGACCCCGCCATGGAAAGCGAGCAG
GCCATGCTCTCCGAAAGAGAATACGAGAGACCCAAGCCCAGCAACGGGGTCCTGAGGCACCCC
CTGGAGCCAGACAGCAGTGCCTCCTGTTTCCAGCAGCTGAGAGTGATCCCGAAGGTCACCAAG
CACCTGCTCTCAAACCCTGTGTTCACCTGCATCATCCTGGCCGCCTGCATGGAGATTGCAGTG
GTGGCTGGCTTCGCTGCCTTTTTGGGGAAGTACCTGGAGCAGCAGTTTAACCTCACCACCTCT
TCTGCCAACCAGCTGCTTGGGATGACTGCGATCCCGTGTGCTTGTCTGGGTATCTTCCTGGGA
GGTCTTTTGGTGAAGAAGCTCAGCCTGTCTGCCCTGGGGGCCATTTCGGATGGCCATGCTCGTC
AACCTGGTGTCCACTGCNTGCTACGTCTCCTTCCTCTTCCTGGGCTGCGACACTGGCCCTGTG
GCTGGGGTTACTGTTCCCTATGGAAACAGCACAGCACCTGGCTCAGCCCTGGACCCCTACTCGCC

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FIGURE 157

TGGAAAGCCATTAAAGGAATTTAAAGTTATTTTACCTGCAGACCTGAAAAATNTATAGAACTG
TTNACATATNTTTGTATATCTNTTCANTAGGTGAACTTTTCATGGGCTAAACAGTACATTNGA
GTGAAATTCTGAAGAAACATTTTAAGGAAAAACAGTGGAAAAGTATATTAATCTGGAATCAGT
GAAGAAACCAAGACCAACACCTCTTANTCATTATTCTTTACATGCAGAATAGAGGCATTTAT
GCAAATTGAACTGCAGGTTTTTCAGCATATACACAATGTCTTGTGCAACAGAAAAACATGTTG
GGGAAATATTCCTCAGTGGAGAGTCGTTCTCATGCTGACGGGGAGAACGAAAGTGACAGGGGT
TTCCTCATAAGTTTTGTATGAAATATCTCTACAAACCTCAATTAGTTATANTGTACACTTTCA
TTNTCATCAAACTGAGACTATCCTGTCTCACNTACAAATGTGGAACTTTACATTGTTTCGAT
TTTTTCAGCAGACTTTGTTTTATTAAATTTCTATTAGTGTTAAGAATGCTAAATTTATGTTTCA
ATTTTAT

FIGURE 158

CTAATTTTATCAAAGGCCNTTTTCCCAAAGCCATCCATCATCCCATTATTAATCTGNACTGT
TGCAACATGGCTATTGTCTGAAATTTTATGAGTTACTATCCTGGGATTTCCCTTTATCTTTCT
GTATTAGACCTTCTGTTTCTTGGAACCTATGTCATCCATCTTGATGTACTCCCTTATTTTGAT
AGTGTATATCCTTTAGTGGCTTCCTAAGAAAAAGTGCATAGATAGTAAAATTTTGAGACCTTG
CATAGCTGATAGTTTTATTCTAATCTCACTCTTGTTGATTAGTTTAAACAGGGTAGAAAATTT
CAGGTTGAATACCAGTTTTCTTCAGTATTTGAAGGTGTTATTTTATTGATTTCGAACTTTCAA
CATTGCTGTTGAAATCTGAAGTTATTCTGATTCTGATCTTTTGTATATAAGTCTTTATGACCT
CTAAAAGTTTTTCAGAATTCTGTTTGTTTATGGAATTCTGAAAGTTGATGATGTACCATAGTGG
AATACTTTTACATTTATTGTACTGGGTATTCCAAAGGCCCTTTTATCCAAAACTCATGTCT
TTTAGTGCTGGAAATTTTTCTTTTGTTATTTTCATATTTTCTTCCCCTTTTTTCTCTTTTCG
CTTTCTGGAATGCCTGTTGGTCAAATGTCAGATTTTCTGACTCATTCTATACAATTAGAAAGC
ACACCCAAGTTTCACTGTGGAACACTCCAGTGAGCCCTTCAGTGTGGTCATCTCTGGGCAGA
GATACTATAGATTTACTGCTAAG

FIGURE 159

TCAGGATGTTCTTAATTGGGGAAGAAATCATTTTTTCNTACAAAAACCAAGCACTTCNTGG
GGCCGGATTACACTGAAACATTTGTACTNACCCAGAGGAGAGGAAATTACCACGAAACCTGAGA
ACATGGAACACTGTTACTATAAAGGAAACATCCTAAATGAAAAGAATTCTGTTGCCAGCATCA
GTACTTGTGACGGGTTGAGAGGATACTTCACACATCATCACCAAAGATACCAGATAAAACCTC
TGAAAAGCACAGACGAGAAAGAACATGCCGTCTTTACATCTAACCAGGAGGAACAAGACCCAG
CTAACCACACATGTGGTGTGAAGAGCACTGACGGGAAACAAGG

FIGURE 160

ATGCTGCGTGGGATCTCCCAGNTACCTGCAGTGGCCACCATGTCTTGGGTCCTGNTGCCTGTA
CTTTGGCTCATTGTTCAAACCTCAAGCAATAGCCATAAAGCAAACACCTGAATTAACGCTCCAT
GAAATAGTTTGTCTAAAAAACTTCACATTTTACACAAAAGAGAGATCAAGAACAACCAGACA
GAAAAGCATGGCAAAGAGGAAAGGTATGAACCTGAAGTTCAATATCAGATGATCTTAAATGGA
GAAGAAATCATTCTCTCCCTACAAAAAACCAAGCACCTCCTGGGGCCAGACTACACTGAAACA
TTGTACTCACCCAGAGGAGAGGAAATTACCACGAAACCTGAGAACAT

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FIGURE 161

GTTTGGGCTAACAGGATCTCCTCTTGCAGTCTGCAGCCCAGGACGCTGATTCCAGCAGCGCCT
TACCGCGCAGCCCGAAGATTCACTATGGTGAAAATCGCCTTCAATACCCCTACCGCCGTGCAA
AAGGAGGAGGCGCGGCAAGACGTGGAGGCCCTCNTGAGCCGCACGGTCAGAACTCAGATACTG
ACCGGCAAGGAGCTCCGAGTTGCCACCCAGGAAAAAAGGGCTCCTCTGGGAGATGTATGCTT
ACTCTCTTAGGCCTTTCATTCATCTTGGCAGGACTTATTGTTGGTGGAGCCTGCATTTACAAG
TACTTCATGCCCAAGAGCACCATTTACCGTGGAGAGATGTGCTTTTTTGATTCTGAGGATCCT
GCAAATTCCTTCGTGGAGGAGAGCCTAACTTCCTGCCTGTGACTGAGGAGGCTGACATTCGT
GAGGATGACAACATTGCAATCATTGATGCGCCTGTCCC

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FIGURE 162

TGTCACAGGTGGGAAAGAAACGGACTGTGGGCCCTCTCTTGGATTAGCGGCGGGCATAACCATT
GNTGGTGGCCACAGCCCTGCTGGTGGCTTTACTATTTACTTTGATTCACCGAAGAAGAAGCAG
CATTGAGGCCATGGAGGAAAGTGACAGACCATGTGAAATTTAGAAATTGATGACAATCCCAA
GATATCTGAGAATCNTAGGAGATCACCCACACATGAGAAGAATACGATGGGAGCACAAGAGGC
CCACATATATGTGAAGACTGTAGCAGGAAGCGAGGAACCTGTGCATGACCGTTAC

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FIGURE 163

TGTATAGGCTTTAAAATGTATATGT
CTTGCCATACTGAACCCATGTTGAAGCCATATTTCCACAGGGTAATAGCTGGCAGAACTGAGT
TAAGGGTTGCCCCCTTTTAGATGAGGCATATGCTCTCCCATCCTCCACAGTTCACACTATGCNT
GCTTATCTCTTACTGATATTAGATATTAGTAATAGTCACATTTATGCATTGTCTTTATTTAAA
AAAATAGTTCTCTTTTTTTATGACAGTAGCAATAGTTAGAATATGAAAGAGAGAAGAGGATTTA
TCCTTGCCCTACTCAATTCCTTGATATCATCTGCCTGGTAATGAGGTGTTGGAGCTGGCTAAT
ACTGACTTATGAGAGCATATTGTTAAATATTCAGGAATTTTACCAGCAGCAACCACCATTGGT
AGATTGGAATCAGCCACAGTGGGAGTATTTACACCAGGGAAATCAACGAACATTACAAATC

FIGURE 164

TTTCAAAAAAAAAAAGTGCTTCTAGTAAATAACACATAACTTTTGTTTTATAACCCAATGTT
ACAGTCCCTCTCTTATAGGAGAACCCAATCCATTCAGTTTATCAGTGATATGCCTGTTTTTGT
GTGTTCCATCGGACTTTGTTTCCTTTTTTCGATTTTGTTATTGTTTCCACCTTTTCAATTTTC
TTACATTTGTTGGCTCTCTCAAGCTTCTGTTTATTCCCCTTCTCCCTCC

FIGURE 165

CCCGCTGCTCGGGCACTGTCTATATACGCCTAACACCTACATATATTTTAAAAACATTAAATA
TAATTAACAATCAAAAGAAAGAGGAGAAAGGAAGGGAAGCATTACTGGGTACTATGCACTTG
CGACTGATTTCTTGGCTTTTTATCATTTTGAACTTTATGGAATACATCGGCAGCCAAAACGCC
TCCCGGGGAAGGCGCCAGCGAAGAATGCATCCTAACGTTAGTCAAGGCTGCCAAGGAGGCTGT
GCAACATGCTCAGATTACAATGGATGTTTGTCTGTGTAAGCCCAGACTATTTTTTGCTCTGGAA
AGAATTGGCATGAAGCAGATTGGAGTATGTCTCTCTTCATGTCCAAGTGGATATTATGGAACT
CGATATCCAGATATAAATAAGTGTACAAAATGCAAAGCTGACTGTGATACCTGTTTCAACAAA
AATTTCTGCACAAAATGTAAAAGTGGATTTTACTTACACCTTGGAAGTGCCTTGACAATTGC
CCAGAAGGGTTGGAAGCCAACAACCATACTATGGAGTGTGTCAGTATTGTGCACTGTGAGGTC
AGTGAATGGAATCCTTGAGTCCATGCACGAAGAAGGGAAAAACATGTGGCTTCAAAAGAGGG
ACTGAAACACGGGTCCGAGAAATAATACAGCATCCTTCAGCAAAGGGTAACCTGTGTCCCCCA
ACAAATGAG

FIGURE 166

[illegible]

FIGURE 167

TCAGCAAAACGTGGATTTAAATCTCNTTGCACAAGCTTGAGAGCAACACAATTTATCAGGAAA
GAAAGAAAGAAAAAAACCGAACCTGACAAAAAAGAAGAAAAAGAAGAAAAAAAATCATGA
AAACCATCCAGCCAAAAATGCACAATTCTATCTCTTGGGCAATCTTCACGGGGCTGGCTGCTC
TGTGTCTCTTCCAAGGAGTGCCCGTGCGCAGCGGAGATGCCACCTTCCCCAAAGCTATGGACA
ACGTGACGGTCCGGCAGGGGGAGAGCGCCACCCTCAGGTGCACTATTGACAACCGGGTCACCC
GGGTGGCCTGGCTAAACCGCAGCACCATCCTCTATGCTGGGAATGACAAGTGGTGCCTGGATC
CTCGCGTGGTCCTTCTGAGCAACACCCAAACGCAGTACAGCATCGAGATCCAGAACGTGGATG
TGTATGACGAG

FIGURE 168

GGAGTGGCTTCCCCTACTGCGTGNTTTGACGCCCATCCCGGTGCTCACGTGGTTTTTCCCCCA
TCATCGGCCACATGGGCATCTGCACATCCACAGGAGTCATTCGGGANNTCGCGGGCCCNTACT
TTGTCTCNGAGGACAACATGGCCTTTGGAAAGCCTGCCAAGTACTGGAAGTTGGACCCTGCTC
AGGTCTATGCTAGCGGGCCCAACGCATGGGACACGGCTGTGCACGACGCCTCTGAGGAGTACA
AGCACCGCATGCACAATCTCTGNTGTGACAACCTGCCACTCGCACGTGGCATTGGCCCTGAATC
TGATGCGCTACAACAACAGCACCAACTGGAATATGGTGACGCTCTGCTTCTTCTGCCTGCTCT
ACGGGAAGTACGTCAGCGTTGGGGCCTTCGTGAAGACCTGGCTGCCCTTCATCCTTCTCCTGGGC

FIGURE 169

TGGGAGATGTATGCTTACTCTCCTTAGCCTTTCATTCATCTTGGCAGGACTTANTGTTGGTGG
AGCCTGCATTTACAAGTACTTCATGCCCAAGAGCACCATTTACCGTGGAGAGATGTGCTTTTT
TGATTCTGAGGATCCTGCAAATTCCCTTCGTGGAGGNGAGCCTAACTTCCTGCCTGTGACTGA
GGAGGCTGACATTNGTGAGGATGACAACATTGCAATCATTGATGTGCCTGTCCCCAGTTTCTC
TGATAGTGACCCTGCAGCAATTATTCATGACTTTGAAAAGGGAATGACTGCTTACCTGGACTT
CCAG

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FIGURE 170

GGAAGCAAAGGAGGAAGATCTACCACAGAAGGTTGAGGAAAAGTTCAACCTCACACAAGCACA
GATCAAACAGACAGCTTGGAATTNAGCAAACAACAGTTTTTTACACCAGTAGCANGANTTCNTA
TTGTTAACTTTGATTATAGCATGGAGGAAAAGTTTGAATCCTTTTCAAGTTTTCTGGAGTAG
AATCAAGTTATAATGTGTTACCAGGAAAGAAGGGACACTGTTTGGTAAAGGGCATAACCATGT
ACAACAAAGCTGTGTGGTCGCCTGAGCCCTGCACTACCTGCCTCTGCTCAGATGGAAGAGTTC
TTTGTGATGAAACCATGTGCCATCCCCAGAGGTGCCCCCAAACAGTTATACCTGAAGGGGAAT
GCTGC

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FIGURE 171

ACTACATTGCCTGGAGGAAGCCTAAGGAACCCAGGCATCCAGCTGCCACGCCTTGAGTCCAAG
ATTCTTCCCAGGAACACAAACGTAGGAGACCCACGCTCCTGGAAGCACCAGCCTTTATCTCTT
CACCTTCAAGTCCCCTTTCTCAAGAATCCTCTGTTCTTTGCCCTCTAAAGTCTTGGTACATCT
AGGACCCAGGCATCTTGCTTTCAGCCACAAAGAGACAGATGAAGATGCAGAAAGGAAATGTT
CTCCTTATGTTTGGTCTACTATTGCATTTAGAAGCTGCAACAAATTCCAATGAGACTAGCACC
TCTGCCAACACTGGATCCAGTGTGATCTCCAGTGAGCCAGCACAGCCACCAACTCTGGGTCC
AGTGTGACCTCCAGTGGGGTCAGCACAGCCACCATCTCAGGGTCCAGCGTGACCTCCAATGGG
GTCAGCATAGTCACCAACTCTGAGTTCCATACAACATCCAGTGGGATCAGCACAGCCACCAAC
TCTGAGTTCAGCACAGCGTCCAGTGGGATCAGCATAGCCACCAACTCTGAGTCCAGCACAAAC
TCCAGTGGGGCCAGCACAGCCACCAACTCTGAGTCCAGCACACCCTCCAGTGGGGCCAGCACA
GCCACC

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FIGURE 172

TACATTGCCTTGGAGGAAGCNTAAGGAACCCAGGCATCCCAGCTGCCCACGCCTGAGTCCAAG
ATTCTTCCCAGGAACACAAACGTAGGAGACCCACGNTCTTGGAAGCACCAGCCTTTATCTCTT
CACCTTCAAGTCCCCCTTTCTCAAGAATCCTCTGTTNTTTGCCCTCTAAAGTCTTGGTACATCT
AGGACCCAGGCATCTTGCTTTCCAGCCACAAAGAGACAGATGAAGATGCAGAAAGGAAATGTT
CTCCTTATGTTTGGTCTACTATTGCATTTAGAAGCTGCAACAAATTCCAATGAGACTAGCACC
TCTGCCAACACTGGATCCAGTGTGATCTCCAGTGGAGCCAGCACAGCCACCAACTCTGGGTCC
AGTGTGACCTCCAGTGGGGTCAGCACAGCCACCATCTCAGGGTCCAGCGTGACCTCCAATGGG
GTCAGCATAGTCACCAACTCTGAGTTCCATACAACCTCC

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FIGURE 173

GACAAAGGNTCATTGTGTAAAGAAGCTCCTTCCAGCACCTCCTNTCTTCTCNTTNTGCCCAAAC
TCACCCAGTGAGTGTGAGCATTTTAAGAAGCATCCTCTGCCCAAGACCAAAGGAANGAAGAA
AAAGGGCCAAAAGCCAAAATGAAACTGATGGTACTTGTTTTTCACCATTTGGGCTAACTTTGCTG
CTAGGAGTTCAAGCCATGCCTGCAAATCGCCTCTCTTGCTACAGAAAGATACTAAAAGATCAC
AACTGTCACAACCTTCCGGAAGGAGTAGCTGACCTGACACAGATTGATGTCAATGTCCAGGAT
CATTTCTGGGATGGGAAGGGATGTGAGATGATCTGTTACTGCAACTTCAGCGAATTGCTCTGC
TGCCCAAAAAC

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GTTTGGTAAGACTCCAGACTCCAGCTAACAGTCCCTATGGAAAAGATGGCATCAAAAAAGATAG
 ATCTATATATATATATAAATATATATTCTATTACATTTTCAGTGAGTAATTTTGGATTTTGCA
 AGGTGCATTTTTACTATTGTTACATTATGTGGAAACTTATGCTGATTTATTTAAGGGGGAAA
 AAGTGTCAACTCTTTGTTATTTGAAAACATGTTTATTTTTCTTGTCTTTATTTTAACCTTTGA
 TAGAACCATTGCAATATGGGGGCCTTTTGGGAACGGACTGGTATGTAAAAGAAAATCCATTAT
 CGAGCAGCATTTTATTTACCCCTCCCCTATCCCTAGGCACTTAACCAAGACAAAAAGCCACAA
 TGAACATCCCTTTTTCAATGAATTTTATAATCTGCAGCTCTATTCCGAGCCCTTAGCACCCAT
 TCCGACCGAG

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FIGURE 175

CGGATTGGATGGATTGNTTGAACGGATTGGGTTGGGGGAAGNAAAGGGAAAGGAGGGAGAAAAG
GAGGGAATAACTGGGCTCCATCTTTTGAGAGCTNTTGGTTGGGCAAGGGCAGAAAACAGGCCC
ACAGTGCTCAACCCCGGACACCCTCACGAAGGTTGCGCAAAGTCACTNCTTGTGGCTTCAGATT
GCTCTTTAGGACCTGGAGGGACAGACCCAGAATCAGGGTCCCCCTCCTTTACCCCTGAGTTCC
TTACTGTTCCCCCAAGCCTGGGAGCAGTCTATCCCCCAACCCTGCCATCTCCCTTACTCATCC
CTCTTCCACAGCTTCCCCCTTTCTAGCCCCCTCTGCCCTACCTGTCTTTCCTGAGTGTTTGAGG
GGAGAGAGAGACCCACATCTCCCCAAAGAGATGAGCTTTTGGGGCACAACATCCCACCGCAGG
CCCCCTCACCCGACAACACCTCCTACCTGGCCCCCTTGCCAAATCCCAAGCAGAATTAGCAACA
GGAAAAGCAGAGCCCCAGGAGAGACACTCTACTATATATACTCTTCTATATATTCTGTTTCTA
TTGTATATTCACTCTGTACATGTGGGTGTAAATGCTGTAAATGACAAACCCAATATTATACT
GTGGCTGGTGGACTATTTTCATCCTCAGTGCTGTACAGATCTATTTTCATTGTATATTTGAT

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FIGURE 176

TGGATGGGCGGCCAGCGATGACCCCATTTGAGAAGGTCATTGAAGGGATCAACCGAGGGNTGAG
CAATGCAGAGAGAGAGAGGTGGGCAAGGCCCTGGATGGCATCAACAGTGGAATCACGCATGCCGG
AAGGGAAGTGGAGAAGGTTTTCAACGGACTTAGCAACATGGGGAGCCACACCGGCAAGGAGTT
GGACAAAGGCGTCCAGGGGCTCAACCACGGCATGGACAAGGTTGCCCATGAGATCAACCATGG
TATTGGACAAGCAGGAAAGGAAGCAGAGAAGCTTGGCCATGGGGTCAACAACGCTGCTGGACA
GGGCAACCATCAAAGCGGATTTTCCAGCCATCAAGGAGGGGCC

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FIGURE 177

GACCTTCCCAGCAATATGCATCTTGACGTCTGGTCGGCTCCTGCTCCNTCCTTCTGNTACTG
GGGGCCCTGTNTGGATGGGCGGCCAGCGATGACCCCATTGAGAAGGTCATTGAAGGGATCAAC
CGAGGGCTGAGCAATGCAGAGAGAGAGGTGGGCAAGGCCCTGGATGGCATCAACAGTGGAATC
ACGCATGCCGGAAGGGAAGTGGAGAAGGTTTTCAACGGACTTAGCAACATGGGGAGCCACACC
GGCAAGGAGTTGGACAAAGGCGTCCAGGGGNTCAACCACGGCATGGACAAGGTTGCCCATGAG
ATCAACCATGGTATTGGACAAGCAGGAAAGGAAGCAGAGAAGCTTGGCCATGGGGTCAACAAC
GCTGCTGGACAGGTTGGGAAGGAGGCAGACAACTGATCCATCATGGGGTCCATCACGGGGCC
AACCAGGCG

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FIGURE 178

ATTGAATNACAGTTTTTCTGGTTTTTTTGTGGAGTTTTTGTTTTGGTTTTTGAGATGGAGTTT
NGNTNTTGTTCCCCAGGCTGGAGTGTGGTGGTGGCGATTTCCGGCTTACCGCAACTTCTGCTTCC
CGGGTTCAGGCAGTTTTCTGCNTCCGGCTTCCTGAGTGGCTGGTATTACGGGCATGCACCGTC
GCGCCCCACTGGTTTTGTATTTTTTTAGTAGAGACGGGGTTTTTCCGTGTTGGTCAGGCTGGT
CTCGAACTCCCGACCTCAGGTGATCCGCCCCGCCTCGGCCTCCCAAGGTNTGGGATTGCAGGT
GTGAGCCACCGTGCCCGGCTGTTTTTTGTGGGTTTTTTGTTTGTGTTTGTGTTTGTGAGACAG
AGTCTTGCTCTGTCACTCAGGCTGGAGTGCAGTGGCACAGTCTCGGCTCACTGCAACCTCTGC
CTCCTGAGTTCAAGCCATTNTCCTGCCTCGGCCCCCTCAGTAGCTGGG

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FIGURE 179

GGGCGAGAAGTAGGGGAGGGCGTGTTCCGCCGCGGTGGCGGTTGCTATCGTTTTGCAGAACCT
ACTCAGGCAGCCAGNTGAGAAGAGTTGAGGGAAAGTGCTGCTGCTGGGTCTGCAGACGCGATG
GATAACGTGCAGCCGAAAATAAAACATCGCCCCCTTCTGCTTCAGTGTGAAAGGCCACGTGAAG
ATGCTGCGGCTGGCACTAACTGNGACATCTATGACCTTTTTTATNATCGCACAAGCCCCCTGAA
CCATATATTGTTATCACTGGATTTGAAGTCACCGTTATCTTATTTTTTCATACTTTTATATGTA
CTCAGACTTGATCGATTAATGAAGTG GTTATTTTGGCCTTTGCTTGATATTATCAACTCACTG
GTAACAACAGTATTCATGCTCATCGTATCTGTGTTGGCACTGATACCAGAAACCACAACATTG
ACAGTTGGTGGAGGGGTGTTTGCACTTGTGACAGCAGTATGCTGTNTTGCCGAC

FIGURE 180

GGGAGGCTGTGNCCGTTTTGTTTTNTTGGCTAAAATCGGGGGAGTGAGGCGGCCCGGCGCGGC
GNGACACCGGGTTCCGGGAACCATTGCACGACGGGGTGGACTGACCTGAAAAAATGTTTGGA
TTTNTAGAGGGCTTGAGATGCTCAGAATGCATTGACTGGGGGGAAAAGCGCAATACTATTGCT
TCCATTGCTGCTGGTGTACTATTTTTTACAGGCTGGTGGATTATCATAGATGCAGCTGTTATT
TATCCCACCATGAAAGATTTCAACCACTCATACCATGCCTGTGGTGTATAGCAACCATAGCC
TTCCTAATGATTAATGCAGTATCGAATGGACAAGTCCGAGGTGATAGTTACAGTGAAGGTTGT
CTGGGTCAAACAGGTGCTCGCATTTGGCTTTTCGTTGGTTTCATGTTGGCCTTTGGATNTCTG
ATTGCATCTATGTGGATTCTTTTTGGAGGTTATGTTGCTAAAGAAAAAGACATAGTATACCCT
GGAATTGCTGTATTTTTCCAGAATGCCTTCATNTTTTTTGGAGGGCTG

FIGURE 181

TTCTTTT TAGAGATTCCNTTGGACCTTGACCCAAGGTTTCCGACAGGTTTTTTTTTTGAATTTT
GGAACAGACCTTTATATTTTGGGNCNAGAAGTTNGCCCAGAAAGCAGCAGGGGTTTTGCCTGG
NTGTAGAGCCCAGTTCATTGGNTGTCCCTGGGTTTGTTCCTTNTTCCGAGTAGTTGTGCCTT
TTTTCAGATCAGGTTACCACAATGCTCCCCGNTGTGACGTTTNATCCCCCACACTTCCAGCCC
CAGTTACCTGGAGTTTTTTCAGAACCCACTTTGCCGGTGTTAAACACAAGAGGGGGTGAAAGT
GGCTGCCAGTAATGGCCAGAAACCAACCACCAGAGGCCAGGNTGAAAGACAAGTTCCGGGTGT
CCAGGGGCTGACGGGCCAACCATGTGGCAGGTCCCAGGCCCCACCCANTGCGCCATCCGCTTC
TGAGCTCCACAGTGGTCCCCTAATGGGAACCTCCTNTAGGGAGAGTGATACTGCACCTTCAC
CCGTAGGACTCATATTTATAACAATGTGTAATGGCTGTAGCAAAAAGCCCTTGTTTNTAGATG
TAAATGGTCAAAGAAACAAGCGTTTTTATTGTTTTGAATAAAATAGTTCAAATGAGTCCTGTAT
CATTGTATCTCCTATTCTGGATTAGTGCCTTTTGGACAGTAGACTGTTCTGTAATTAAAA

FIGURE 182

AATTTTCACCGCTGTAGGAATCCAGATGCAGGCCAAGTACAGCAGCACGAGGGACATGNTGGA
TGATGATGGGACACCACCATGAGCCTGCATTNTCAAGCTTTTGCCACAATTCGGCATCCAGAG
CCCCGGCGCACAGAGCACAGGGNTCCTTTTTCAACGTGGCGACCAGTGGCCCTGACCCTGCTG
ACTTTGTGCTTGGTGCTGCTGATAGGGCTGGCAGCCCTGGGGCTTTTGTTTTTTCAGTACTAC
CAGCTCTCCAATACTGGTCAAGACACCATTTCTCAAATGGAAGAAAGATTAGGAAATACGTCC
CAAGAGTTGCAATTTNTTCAAGTCCAGAATATAAAGCTTGCAGGAAGTNTGCAGCATGTGGCT
GAAAACTCTGTCGTGAGCTGTATAACAAAGCTGGAGGAACTTTGAAGGAGGGCAAAGTNTCC
TCATNTACTATACACACACCACTTCCC

FIGURE 183

TCACAGCATGAGAGAGATCCNTGGTATAGCTGGGACCAGCCGGGCCTGANGTTGAACTGGGGT
GAACCGATGCACTGGCACCTNGACATNTACAACAGGAACCGTGTGGANACATCCCCACACCT
GTTTNTTGGCATGTCATGTGTATGCAGNTCTTCGGTTTCCTGGCTTTNNTGATATTCATGTGN
TGGGTGGGGGANGTGTACCCTGTCTACCAGCCTGTGGG

FIGURE 184

GAAAGAAGGAAATAAACACAGGCACCAAACCANTATCCTAAGTTGACTGTCCTTTAAATATGT
CAAGATCCAGACTTTTCAGTGTCACCTCAGCGATCTCAACGNTAGGGATCTTGTTTGGCCGN
TATTCCAGTTGGTGCTCTCGGACCTACCATGCGAAGAAGATGAAATGTGTGTAAATTNTAATG
ACCAACACCNTAATGGNTGGTATATCTGNATCCTCCTGCTGCTGGTNTTGGTGGCAGCTCTTC
TCTGTGGAGCTGTGGTCCTCTGCCTCCAGTGCTGGCTGAGGAGACCCCGAATTGATTCTCACA
GGCGCACCATGGCAGTTTTTGCTGTTGGAGACTTGGACTCTATTTATGGGACAGAAGCAGCTG
TGAGTCCAAC TGTTGGAATTCACCTTCAAACCTCAAACCCCTGACCTATATCCTGTTCTGCTC
CATGTTTTGGCCCTTTAGGCTCCCCCTCCTCCCT

FIGURE 185

CCGAAACGCGGTCTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTG
TCGCGGCCCTGCGGTTGGCGGCCTCCTCGTGGAGCGGAGCAAGGCTGAGATCTGTATCTGTGG
ACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAG
TCAAATTTACAGTGCACACAAAGACCACACTGCCCACGTTTCAGAGCCCAGAGTTTTCTGTTA
CAAGGCAACATGAAGACTTTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTG
GGCTTATTATTCCACCTGCTCTTTG

CGTTCAGAGCCCAGAGTTTTCTGTTA

FIGURE 186

GGCTGGAGCAAATGCTCCACAGCTGCCGAATCCAGAAGTCAGATTTTCAGCAACAACCTGGAACA
GCTCAACGCAATGGGGTTCTTAAACCGTGAAGCAAACCTTGCAGGCCCTAATAGCAACAGGAGG
CGACATCAATGCAGCCATTGAAAGGCTGCTGGGCTCCCAGCCATCGTAATCACATTTCTGTAC
CTGGAAAAAATGTATCTTATTTTTGATAATGGCTCTTAAATCTTTAAACACACACACAAAAT
CGTTCTTTACTTTCATTTTGATTCTTTTAAATCTGTCTAGTTGTAAGTCTAATATGATGCATT
TTAAGATGGAGTCCCTCCCTCCTACTTCCCTCACTCCCTTCTCCTTTGCTTATTTTTCTCTAC
CTTCCCTTCCTCTTGTCTCCCCACTCCCCTCCC

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FIGURE 187

CTTAGCATAAACCTACAGGGCCCTGTGTGATCGGACTCCTGCCCACCTTGACATGTTAGTTACT
TGCCCCCTCGTTGCTTCGTGCTTTACCTTCCAGAATCATTAAACTGCTGATGTTTCCCAAAAAT
AACTATGTACCTGGGTCAGCTCATGCTGGCATGGAGTTCTCGTCCATCACCATGCCCACCCTG
GCTTCTTTGAGCGCCCGTATAATATATATCTCTACCATCATACTTCATATATTTTGTTATAAT
TGCTGGTTTTATTGCTCTGTGGT

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FIGURE 188

AAAAATCCTGGTTTTTTTTTGGGTTTTTTTTTTTGCTGTGCCCTAGACCATTACATAACTGAAGA
CTCCACCTTCAGGCAGGTTTGGGTAGTACACGTTTGTAACCTGGCATTGCCTTTTGTTG
AAGTAATTTCAGTTTTTATTAGTAGTAGTAGTATACTTTGGGTTCTACAGTATATGTTCA
CAATGTGCAGGTTTGTTACATATGTATACATGTGCCATGTTTGTTTGCTGCACCCATTAAC TG
GTCATTTACATTGGGTATTTCTCCTAATACTATCCCCCCCCGC

FIGURE 189

GTAACATTTGGGAGTGACAAGACTGTTTCATCAGCTTGGGGCCTGGCAGCAACTTTTCTAGAGT
TAGCTTTTTTCTCCTTTCTTGTTCCATGACTTAAAAATAATAACTTGTTGGGCATGGTGCCTC
ATTCTTGTAATCCCAGCACTTTGGGAGGCTGAGGCACTTGTGGCCAGGAGTTCAAGACTAGCC
TGGGCAACGTAGTAGATGCCCTCCCCGCCACCATCTCTACAAAAGAAAAAAGTTAACTCTTG
ATTTGCTTTCTAGTAGTGGGTGAATTTGGAGTTCCAATGATTGTCAACCCATTAATTCTTCAT
TTACTGAACATCTCCTTATGTTTCAGATGCTGCAAAGATGTACAAGACTTTGTTTCCTACCCT
CCTTTTT

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FIGURE 190

TGCAATCTGCCTTGTGTGCTGTTGTAAACAAGTTAGTGTTCAACCAGTGTTTAAAGTGTCTGT
TTTAAAAGCTCTAATTATGGTAGTATTTCCATTTCCTTTTACAACACCCTTTATTTTG TTCCT
CCAGGTTC

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FIGURE 191

TTTTAAAAAAAAAAAAAAAACAAAGAAATTCTATGTAACTCAATACCAACATCTTGCAGAACT
AGAGTACAATATCACAGCCAGGATGTTGACCTTGATACGAGCCATCAGTCTTATTCGGGTTTT
CCCAAATTTACTTTGTGTGTGTGTGTGTCTGTGTGTAGTTAGGTCTATGCTAGTTTATGACGT
GCAGTTTCATGTATCTCCCACCACAGCCAACACACAGAACAGTTCCATCTCCCCTC

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GGTTTCGCCATGTTGCCCAAGCTGTTCTTGAAGTCCCGGGCTCAGGTGATCCGCCTCCCTCGG
CCTCCCAGAGTGCTGGGATTACAGGCACGGACCACCATGCCCAGCCTCCACATCTTTTTTTTGC
ACTGTGTATACTCTTCTGAGACATGCCAACTTCCTCCAGGTCAAGAAAGGGGTATATAGCTCT
CAGCTTCACTCTTTCAGGGCTGATGTCGCCTTTTGCCTTTTCTCACTTCACTGACCTGTCTATT
CCTACAACTGTCTCTTTCTAGAGAAGCCTCAATGATCAGGATTGACAGGCCACACTCTCCCC
ACCTTTCT

FIGURE 193

CAGCATGAGCTCCCTGTGTGTGCAAGGCAGCTCTATGCGGTTCTCGGTGTCTCCTAGGAAGCA
ACTTTCAGTACCCTCCTGTGTTGAGTCCGATTTTCTAAAAGCTGAGCGGGCATCTAGGGACCT
TTCTGTCACTCAGCCGACTGTGTGGCTGTGGCCAGCTCTGGGTCTGCCTCCCCCAGAACTAGA
TGCCCATGGGGAGTCCATCAGCACCAATCTCCTGTGATCGTTTATACAACAGAATCTCCACTC
AAGTAAAAGTGGGGCCTCCTCCTATCTTGCTGTTTGTGTGTGTGTTGGCAGACCCCAGCGTGG
CTGGAACAGATGATTGCACATACCACGTGGCGGGACCTTTTTTATAAACTGGCTGAAGCCCAT
CCAGACTGTTTGATGCTGAACTTCACCGTTAAGGTAGGAAGAGTTCTAGAGTTAAGGAGAAAA
GTGTTTATGAATGTTTATTTTTGGTTGTTGGTCTGTTTGG

Parameter	Value	Unit
α	0.01	
β	0.01	
γ	0.01	
δ	0.01	
ϵ	0.01	
ζ	0.01	
η	0.01	
θ	0.01	
ϕ	0.01	
χ	0.01	
ψ	0.01	
ω	0.01	
ν	0.01	
μ	0.01	
λ	0.01	
κ	0.01	
ι	0.01	
\hbar	0.01	
g	0.01	
f	0.01	
e	0.01	
d	0.01	
c	0.01	
b	0.01	
a	0.01	
z	0.01	
y	0.01	
x	0.01	
w	0.01	
v	0.01	
u	0.01	
t	0.01	
s	0.01	
r	0.01	
q	0.01	
p	0.01	
o	0.01	
n	0.01	
m	0.01	
l	0.01	
k	0.01	
j	0.01	
i	0.01	
h	0.01	
g	0.01	
f	0.01	
e	0.01	
d	0.01	
c	0.01	
b	0.01	
a	0.01	
z	0.01	
y	0.01	
x	0.01	
w	0.01	
v	0.01	
u	0.01	
t	0.01	
s	0.01	
r	0.01	
q	0.01	
p	0.01	
o	0.01	
n	0.01	
m	0.01	
l	0.01	
k	0.01	
j	0.01	
i	0.01	
h	0.01	
g	0.01	
f	0.01	
e	0.01	
d	0.01	
c	0.01	
b	0.01	
a	0.01	
z	0.01	
y	0.01	
x	0.01	
w	0.01	
v	0.01	
u	0.01	
t	0.01	
s	0.01	
r	0.01	
q	0.01	
p	0.01	
o	0.01	
n	0.01	
m	0.01	
l	0.01	
k	0.01	
j	0.01	
i	0.01	
h	0.01	
g	0.01	
f	0.01	
e	0.01	
d	0.01	
c	0.01	
b	0.01	
a	0.01	
z	0.01	
y	0.01	
x	0.01	
w	0.01	
v	0.01	
u	0.01	
t	0.01	
s	0.01	
r	0.01	
q	0.01	
p	0.01	
o	0.01	
n	0.01	
m	0.01	
l	0.01	
k	0.01	
j	0.01	
i	0.01	
h	0.01	
g	0.01	
f	0.01	
e	0.01	

FIGURE 195

GTTTAATTATGGTATGCAACCACTCATGTATTCGGTTCAGGAAGCATTAATGCCAGACCATG
 GTGGATTTCGTATGGGGACTGACATTTGTTACTATAAAAATCATTTCTCAAGAAGTTCAGTTGC
 TGCAGGTGGGCAAAGGGAAAATCCTACTATACAATTACATTTACTGTCAATTTTCCACATAA
 AGATGATGTTTGCTACTTTGCTTATCACTATCCTTT

FIGURE 196

CTGACATTCATTGTGATGAGGGCAGCTTTCTGGTACAGGATTCTAAGCTCTATGTTTTATATA
CATTTCATCTGTACTTGCACCTCACTTTACACAAGAGGAACTATGCAAAGTTAGCTGGATC
GCTCAAGGTCACCTTAGGTAAGTTGGCAAGTCCATGCTTCCCACTCAGCTCCTCAGGTCAGCAA
GTCTACTTCTCTGCTATAG

FIGURE 197

ATCTTGGCCGTATGAAAGTATAACACTAAGAAAAAATTCATTTTTTTCAAACGTAACTTCC
ATTCTTTCTCCCTTTTCCTCTAAACTAAAACCTTCTTTCCCATCTTTTNTTTCTTGAACCAGA
CTAATCTAGACAAAGATCTCAGCCTCTGCCAGACAGAGTTAGAGGCAGATTTAGAAAAAATGG
AGACGCTTAATAAAGCACCCAGTGCAAACGTGCCACAGGTATTTCTAGTTTTTCTCATGCCA
TCAGTTCCTTTTCAAGCTGTGCTTTGTTTTCTTCTTTGTTCTATGGTTTTTGATGTAGTTGAG
GTGACGGATGGTGATGCTGGCTATTTTAGGCTGCATGGCTTCTGACTACTGTTTTAGACTCC
TTCCCCCACACCTACCCAGTTAGTA

GTTGAACGCCACCGAGGGTCAAGTACAGACAAGAAGCTGTGCAGTACCAGTGTTTCCTCNT
 GCCCAGAAACAAATCCACCAAAAACCCATACCTCTGCCAAGATTTACAGAAGGGGGAAACCCA
 ACTGTGGATGGGCCCCCTACCCAGNTTTTTCATNTAATTCCACTATTTTCAGAACAGGAAGCTGGC
 GTTCTNTGCAAGCCATGGTATGCTGGAGCCTGTGATCGAAAGTCTGNTGAAGAGGCATTGCAC
 AGATCAAACAAGGATGGATCATTTTCTTATTTCGGAAGAGCTCTGGCCATGATTCCAAACAACCA
 TATACACTAGTTGTATTCTTTAATAAGCGAGTATATAATATTCCTGTGCGATTTATTGAAGCA
 ACAAACAATATGCCTTGGGCAGAAAGAAAAATGGTGAAGAGTACTTTGGAAGTGTTGCTGAA
 ATCATCAGGAATCATCAACATAGTCCTTTGGTTCCTTATTGACA

FIGURE 199

GGCGGCTGGGCTGTTTGGTTTGAGCGCTCGCCGTCTTTTGGCGGCAGCGGCGACGCGAGGGCT
CCCGGCCGCCGCGTCCGCTGGGAATCTAGCTTCTCCAGGACTGTGGTCGCCCCGTCCGCTGT
GGCGGGAAGCGGCCCCAGAACCGACCACACCGTGGCAAGAGGACCCAGAACCCGAGGACGA
AAACTTGTATGAGAAGAACCCAGACTCCCATGGTTATGACAAGGACCCCGTTTTGGACGTCTG
GAACATGCGACTTGTCTTCTTCTTTGGCGTCTCCATCATCCTGGTCTTTGGCAGCACCTTTGT
GGCCTATCTGCCTGACTACAGGATGAAAGAGTGGTCCC GCCGCGAAGCTGAGAGGCTTGTGAA
ATACCGAGAGGCCAATGGCCTTCCCATCATGGAATCCA ACTGCTTCGACCCAGCAAGATCCAG

FIGURE 200

GGTCCGAAAAGTAAGTTCTTNNTTTTGGGCTNAACGGGATTTCTTNNTTTCAGTTTTGCAGCC
CCAGNACGNTGATTCCCAGCAGGCGCTTTACNNGGCAGCCCGAAGATTTCACTTATGGTGAAA
ATCGCCTTTCAATACCCTTACCGCCGTGCAAAAGGAGGAGGCGCGGCAAGACTTGGAGGCCCT
TCTTGACCCGAACGGTCAGAACTCAGGATANTGACCGGCAAGGAGCTCCGAGTTGCCACCCAG
GAAAAAGAGGGCTCCTCTGGGAGATGTATGCTTACTCTCTTAGGCCTTTCATTCATCTTGGCA
GGACTTATTGTTGGTGGAGCCTGCATTTACAAGTACTTCATGCCCAAGAGCACCATTTACCGT
GGAGAGATGTGCTTTTTTGGATTCTGAGGATCCTGCAAATTCCTTCGTGGAGGAGAGCCTAAC
TTCCTGCCTGTGACTGAGGAGGCTGACATTCGTGAGGATGACAACATTGCAATCATTGATGTG
CCTGTCCCCAGTTTCTCTGATAGTGACCCTGCAGCAATTATTCATGACTTTGAAAAGGGAATG
ACTGCTTACCTGGACTTGTTGCTGGGGAAGTCTATCTGATGCCCCTCAATACTTCTATTGTT
ATGCCTCAAAAAAATCTGGTAGAGCTCTTTGGCAAAGTGGCGAGTGGCAGATATCTGCCTCAA
ACTTATGTGGTTCGAGAAGACCTAGTTGCTGTGGAGGAAATTCGTGATGTTAGTAACCTTGGC

FIGURE 201

GATGGGTTTCCAAGCGTTCATTCAAAAACCTTGCTGGGTAATCCCCAGGCCTCTATAGCTCAGA
TCATTGTCACAGTCGTACTGGGACTGGTTATAGGTGCCATTTACTTTGGGCTAAAAAATGATT
CTACTGGAATCCAGAACAGAGCTGGGGTTCTCTTCTTCCTGACGACCAACCAGTGTTTCAGCA
GTGTTTCAGCCGTGGAACCTTTGTGGTAGAGAAGAAGCTCTTCATACATGAATACATCAGCG
GATACTACAGAGTGTCATCTTATTTCTTGGAACCTGTTATCTGATTTATTACCCATGAGGA
TGTTACCAAGTATTATATTACCTGTATAGTGTACTTCATGTTAGGATTGAAGCCAAAGGCAG
ATGCCTTCTTCGTTATGATGTTTACCCTTATGATGGTGGCTTATTCAGCCAGTTCCATGGCAC
TGGC

FIGURE 202

GCGGCCCCCTTGGGGTTTGGATTTCAGGATTTGTTCCCTAGTGTCCAAGATTTTGT TAGGAACTT
ACNGAAGTTGATGCTTACCTACAAATCTTGATTGAACAATTAAAGCTTTTGTATGACAAGCTT
CAAACTGCAAAGAAGATGAACAGAGAAAGAAAATTGAACTNTCAAAGAGACAACAAATAGCA
TGGTAGAATCAATTAAACACTGCATTGTGTTGCTGCAGATTGCCAAAGACCAGAGTAATGCGG
AGAAGCACGCAGATGGAATGATAAGTACTATTAATCCCGTAGATGCAATATATCAACCTGGTC
CTTTGGAACCTGTGATCAGCACAAATGCCTTCCCAGACTGTGTTACCTCCAGAACCTGTT CAGT
TGTGTAAGTCAGAGCAGCGTCCATCTTCCCTACCAGTTGGACCTGTGTTGGCTACCTTGGGAC
ATCATCAGACTCCTACACCAAATAGTACAGGCAGTGGCCATT CACCACCGAGTAGCAGTCTCA
CTTCTCCAAGCCACGTGAACTTGTCTCCAAATACAGTCCCAGAGTTCTCTTACTCCAGCAGTG
AAGATGAGTTTTATGATGCTGATGAATTCCATCAAAGTGGCTCATCCCCAAAGCGCTTAATAG
ATTCTTCTGGATCTGCCTCAGTCCTGACACACAGCAGCTCGGGAAATAGTCTAAAACGCC CAG
ATACCAC

FIGURE 203

CATGCAGTGCTTCAGCTTCATTAAGACCATGATGATCCTCTTCAATTTGCTCATCTTTCTGTG
TGGTGCAGCCCTGTTGGCAGTGGGCATCTGGGTGTCAATCGATGGGGCATCCTTTCTGAAGAT
CTTCGGGCCACTGTCGTCCAGTGCCATGCAGTTTGTCAACGTGGGCTACTTCCTCATCGCAGC
CGGCGTTGTGGTCTTTGCTCTTGGTTTCCTGGGCTGCTATGGTGCTAAGACTGAGAGCAAGTG
TGCCCTCGTGACGTTCTTCTTCATCCTCCTCCTCATCTTCATTGCTGAGGTTGCAGCTGCTGT
GGTCGCCTTGGTGTACACCACAATGGCTGAGCACTTCCTGACGTTGCTGGTAGTGCCTGCCAT
CAAGAAAGATTATGGTTCCCAGGAAGACTTCACTCAAGTGTGGAACACCACCATGAAAGGGCT
CAAGTGCTGTGGCTTCACCAACTATACGGATTTTGAGGACTCACCTACTTCAAAGAGAACAG
TGCCTTTCC

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FIGURE 204

GAATCGATAGAACCGAGGTGCAGTTGGACCTGGGAGTGGACACCAAGATTTTAAAAGCTCCAA
TTTCAGAGCAAGAGTCGAAAACCTCACAGATAAAGTTATAGTTATTTTCAGGGTTCTGAAAAGAC
GCAGAACATGAAGGGACTCAGAAGTCTGGCAGCAACAACCTTGGCTCTTTTCCTGGTGTTTGT
TTTCCTGGGAAACTCCAGCTGCGCTCCGCAGAGACTGTTGGAGAGAAGGAACTGGACTCCTCA
AGCTATGCTCTACCTGAAAGGGGCACAGGGTCGCCGCTTCATCTCCGACCAGAGCCGGAGAAA
GGACCTCTCCGACCGGCCACTGCCGGAAAGACG

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FIGURE 205

TCCAGGAGACGACTAAAATGGGCTGTCTTCATCGGTGGAATACAACATAATGGAGTTGGAACA
AGAACTTGAAAATGTAAAGACTCTTAAGACAAAATTAGAGAGGCGAAAAAAGGCTTCAGCATG
GGAAAGAAATTTGGTGTATCCCGCTGTTATGGTTCTCCTTCTTATTGAGACATCCATCTCGGT
CCTCTTGGTGGCNTGTAATATTCTTTGCCTATTGGTTGATGAAACAGCAAATGCCAAAAGGAA
CAAGGGGGCCTGGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGCGCTTG
AAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTCGGCTTCTATAGCCTTCGATTTT
TTGGAACTTTACTCCCAAGAAAGATGACACAACCTATGACAAAGATCATTGGAAATTGTGTGT
CCATCTTGGTTTTGAGCTCTGCTCTGCCTGTGATGTCGAGAACACTGGGAAT

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FIGURE 206

CTATTAGAGATTCCCCTTGGACCCTTGGACCCAACGGNGTCCCGGGGNACACCCCCTTTTTTC
AGAAACCCAGGGCTGTGTAAGAGCTGCTTGGAGTAGGCACCCCATTTAAAGAAAAAATGAAG
AAGCAGCAATAAAGAAGTTGTAATCGTTACCTAGACAAACAGAGAACTGGTTTTGACAGTGTT
TNTAGAGTGCTTTTTTATTATTTTCCTGACAGTTGTGTTCCACCATGATTACTTTCTCCTTCAG
CGAATAGGNTAAATGAATATGAAACAGAAAAGCGTGTATCAGCAAACCAAAGCACTTCTGTGC
AAGAATTTTCTTAAGAAATGGAGGATGAAAAGAGAGAGCTTATTGGAATGGGGCCTCTCAATA
CTTCTAGGACTGTGTATTGCTCTGTTTTCCAGTTCCATGAGAAATGTCCAGTTTCCTGGAATG
GCTCCTCAGAATCTGGGAAGGGTAGATAAATTTAATAGCTCTTCTTTAATGGTTGTGTATACA
CCAATATCTAATTTAACCCAGCAGATAATGAATAAAACAGCACTTGCTCCTCTTTTGAAAGGA
ACAAGTGTCAATTGGGGCACCAAATAAAACACA

FIGURE 207

TGCCTTTTCCTCTGACCCTTCAGGTCCCTCACCGAGTTTTGCTCCAGNGTATATTGAAAACA
TACCCAGTGCTNTNTCAAGCACCCACTGCTTAGAGGGCCCAGATTTCTTTTCCTTCTTTCCCT
TGCAGAGCTGGAGACTGCATCGGGCATCTGGTGTTTAAACTAAACAGGAAAACAGCTAAAGG
TCCACAGTGCTCATTGTGTAGACTAGCTGCCCTCCGATGGGTGCTCTGATTATCAGTGGTTCC
AGTGCAGGGCCTGTCACTAAACAGGCCTCANTTCCTCCTTGGGGGCTTTCCCATGGGAGGTGT
GGCTTTTTACTCTACATGGAAATGACTCTCTGCAGCCACAGAACACAGTCATTTTCTGAATTA
TCCCAGTCTCTCATGCGCCCTGGATTCTCCAGATGCCTTATATCTCTTGTGCAAAGTTGTCT
AAAATTTGGTTCCCAGNTTCCAAGCCTTGCCTTTTGGCCTTCCTGGAAGTATTTTTGTTGATG
AGTCGTCTGTCATTATTCTCTAAAATGATTTGCTTTTTTGTTCCTTCATTCCTATTTCCACCC
CACATATACAC

FIGURE 208

TCTTTCTGTAAGACTCAACTGATATATATTATACTGATGCAAATATTAAGTAGGGCATAAAAA
TATGCTTCCATAATATGAAATAGATTATTCAATAATTGAGAACTTTATGTGTAATCATGAGA
GTATAAGAGTCTGGATTATCTAACATTGTTAGCCCTGTGTATGTACAGTTCAAAAAGTTCATT
TATAAAAGTAGTTTCCTGTTCCTAGTGTGATGTATCACAAATTGTGCTGAGGTTATTTTAGTA
TGTGTGTTTCATTCCCGTGCTTCTGTTCTGAAGTCCTGGAATACAGTTTTTCAGTGTAATTAAT
TCAACTGCACTTAACANTAATGTCCGTGTTGGTATAGAAATGTCTAAATCCTATACTCTAGTT
GAGGAAGATCTTCCATAATTTTATGGTATTACACAGGGAAAGCTATGANTGCAGGATCAGTCT
AANTATANTATTAGGTGCATGTATTCTCTTTTCACTAANTTATACTTGTCTATCTAGAATACA
GGTNTTCCAGTCAGCTGGTCATTTACCAGGTGTGGANTTAAGTTGCTGGGCTTGCAGTAAGAA
TTGCCAGCCANTCATTGTGCG

FIGURE 209

CGTGTGGCCCCCGCGGTGCGGAGTATGGGGCGCTGATGGCCATGGAGGGCTACTGGCGCTTCC
TGGCGCTGCTGGGGTCGGCANTGCTCGTCGGCTTCCTGTGCGGTGATCTTCGCCCTCGTCTGGG
TCCTCCACTACCGAGAGGGGCTTGGCTGGGATGGGAGCGCACTAGAGTTTAACTGGCACCCAG
TGCTCATGGTCACCGGCTTCGTCTTCATCCAGGGCATCGCCATCATCGTCTACAGACTGCCGT
GGACCTGGAAATGCAGCAAGCTCCTGATGAAATCCATCCATGCAGGGTTAAATGCAGTTGCTG
CCATTCTTGCAATTATCTCTGTGGTGGCCGTGTTTGAGAACCACAATGTTAACAATATAGCCA
ATATGTACAGTCTGCACAGCTGGGTTGGACTGATAGCTGTCATATGCTATTTGTTACAGCTTC
TTTCAGGTTTTTTCAGTCTTTCTGCTTCCATGGGCTCCGCT

FIGURE 210

TTTCATATACCATGGAGTTACATAAAACATGGCATTTTGTATCTGGCTTCTTTCACTTAATGT
TTTCAAGGTTTCATTCAGGCTGGAGCGCATAATGATACTTTATTCCCTTTCTATGGTTGAATAAT
ATTCCATTGTATGAATAGACCATATTTTGTCTATCCATTCATCAGTTGATGGACATCTGGGTT
ATTTCTATTTTTTGGCTATCGTGAATAATGCTGCCATGGACATTACAGTATAAGTTTTTGTGTG
GATATATGTTTTTCATTTCTTTGGAGTAGAGTTGCTGGGTCATGGGGTAACCCTAGGTTTAAGC
TTTTGAGGCNTACCAGATTTCCAAAGTGACTGCATCATTTTGCATTTCCCATCAACAGTATATG
AAGGTTCTAACTTCTCTACATCTTCACCAATATTTGTTATTGTCTGTCTTCTTGACAAAAGTT
CTCCTAGTGGGTGTGAACTGGTATCATTTTGTGGTTTTTGATTTGCATTTCCCTGGATGGTTATG
AATGTTGATTTTACTTTCATGTGCTTATTGGCCATTGTATATCTTTGGGAAAATAGCTATTTTCC

FIGURE 211

GTCGAAAGAAGCTTATCTGCAAAAGATATAATGAAAAATGGGAAGAGCAATCATCTCAAACAG
TTCCGGGTTGCTGCCCTTTTGGCTTTCCTAGGTGCTACAGTAGCAGGCTGTTTTCCCCTTTTC
CATAGAGGGGAATATTCTGCATCACCCCTTTGTTTGCCATTTCTACAGGTGAAACGCCATCA
TTAGGATTCAGTGTAAACGTTAGTGCTATTAACTCACTAGCATTTTTATTAATGGCCGTTATC
TACACTAAGCTATACTGCAACTTGAAAAAGAGGACCTNTCAGAAAACCTCACAATCTAGCATG
ATTAAGCATGTCGCTTGGCTAATCTTCACCAATTGCATCTTTTTCTGCCCTGTGGCGTTTTTT
TCATTTGCACCATTGATCACTGCAATCTCTATCAGCCC

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FIGURE 212

TTTTGGCCTGTTGGAATTTCCCCANTTTTTTTTCCCAGGAGGATTTGCCCAAANTGAGCTTN
TATTGGGACAGGNGGCANTTGGATTTTTTGGAGTAGGTGGGCTTTTGTTTTTTGGGGTCTGCAAT
TGGTTTGTCTTAGAGGTTT CAGGAGGGGAAATTATATGGAAGGGTCCCAAATTGCATTACTTTA
CAAAC TCATTGTACTCTGTTTGGCCATTAGTCTTCCTTAGGAATCGGACGATTAGCCATTATA
AAATCAATAGGCTATCAGGAACATTTAACAGAGTATTGGAGTTCACTGGAACTTTTTCTTTAC
CATAATAGTTGTGAAATTGATAACACCACTGCTGTTGATTATTTTTTCCCCTAAATAAGTCCTG
GATTATTGCCNTCGGCATTACTGTATTATAACCAGCTAGCCCTTGACTTTACCTCACTGAAGAG
GTTAATATTATATGGCACTGATGGTAGTGGCACACGGGTTGGTCTATTAAATGCCAACCGCGA
AGGAATAATCTCTACCCTGGGGTATGTGGCAATACACATGGCTGGTGTGCAAACAGGGTTATA
TATGCATAAGAACCGATCACATATCAAAGACTTGATAAAAGTAGCCTGTTTTCTTTTANTGGC
AGCTATTAGCCTCTTCATATCTCTTTACGTAGTTCAAGTAAATGTAGAAGCAGTATCTCGAAG
AATGGCAAATTTAGCCTTTTGTATTTGGATAGTTGCTTCTAGCCTGATCCTTCTTAGTAGTTT
ATTANTGGG

FIGURE 213

GGCGGAAGTGAAGTTTTTCTTAATTATCATGTGACGGGTTCTGGATTTAATGGGGGGAAAAG
GGCGGAATAGGACAAGGATCCAACTGGCGAATTTGCTGATCTTCGGGTCCCTNTCCGCTTTC
CGGCCGGCAGCGCTGCCAGGGTATATTTCTTTTTTCCGATCCTGCAACAGCCTNTTTAAACT
GTTTAAATGAGAATGTCCTTGGCTCAGAGNGTACTACTCACCTGGCTTTTCACACTACTCTTC
TTGATCATGTTGGTGTTGAACTGGATGAGAAAGCACCTTGGAANTGGTTCCTCATATTCATT
CCAGTCTGGATATTTGATACTATCCTTCTTGTCCTGCTGATTGTGAAAATGGCTGGGCGGTGT
AAGTCTGGCTTTGACCCTNGACATGGATCACACAATNTTAAAAAAAAAGCCTGGTACCTCATT
GCAATGTTACTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAACTGGAACAGTTTAC

FIGURE 214

NACGGTGAATTTTNGAAGCCAANGAAGGAGATTTGCACAGGATAGAANTCCCATTCAAATTC
CACATGTTGCATTACAGGGTTGGTCCACGGCNTGGCTTTCTGGTTTGACGTTGCTTTCATCGGN
TCCATAATGACCGTGTGGCTGTCCACAGCCCNGACAGAGCCCCTGACCCACTGGTACCAGGTG
CGGTGCNTGTTCCAGTCACCACTGTTGCGCAAGGCAGGGGACACGCTCTCAGGGACATGTCTG
CTTATTGCCAACAAAAGACAGAGCTACGACATCAGTATTGTGGCCCAGGTGGACCAGACCGGC
TCCAAGTCCAGTAACCTCCTGGATCTGAAAAACCCCTTCTTTAGATACACGGGCACAACGCCC
TCACCCCCACCCGGCTCCCACTACACATCTCCCTCGGAAAACATGTGGAACACGGGCAGCACC
TACAACCTCAGCAGCGGGATGGCCGTGGCAGGGATGCCGACCGCCTATGACTTGAGCAG

FIGURE 215

TGGCCGGATCCCTTTAGAAATCCCTTGGACCTTGGACCCAAGGTGTCCGGGCGAGAGCCTTGG
GATGCACCCGGCCAGAGCCCATGCTGCTGCTGCTNAACGNTTGGCCCTCCNTGGGGGGCCCCA
CTTGGGCAGGGAAGATGTATGGCCCTGGAGGAGGCAAGTATTTAGCACCANTGAAGATTACG
ACCCATGAAATCACAGGGCTGCGGGTGTCTGTAGGTCTTCTCCTGGTGAAAAGTGTCCAGGTG
AAACTTGGAGACTCCTTGGGACGTGAAACTGGGAGCCTTAGGTGGGAATACCCAGGAAGTCAC
CCTGCAGCCAGGCGAATACATCACAAAAGTCTTTGTGCGCTTCCAAGCTTTCCTCCGGGGTAT
GGTCATGTACACCAGCAAGGACCGCTATTTCTATTTTGGGAAGCTTGATGGCCAGATCTCCTC
TGCCTACCCAGCCAAGAGGGGCAGGTGCTGGTGGGCATCTATGGCCAGTATCAACTCCTTGG
CATCAAGAGCATTGGCTTTGAATGGAATTATCCACTAGAGGAGCCGACCACTGAGCCACCAGT
TAATCTCACATACTCAGCAAACCTACCCGTGGGTGCTAGGGTGGGGTATGGGGCCATTTACC
GAGCGGCCCGCGTAATTGGGCCGCTGGGGTATCTCTCGAGAAAAGAGAGGCCCAATATGACCC
ACATACTCAATATGGACGAACTGATATTGTCCACCTGTTATGAGTG

FIGURE 216

TTTCCAAAAGTTGTGAAGGACACCTCCATCCATTCAAGGCAGTTGTCAAAGCAGAAATTTTCA
GTGCAAGTCTTGATGTTGCCCCGTCCCNATTCCCTACATCAGAAGGATCCCTCATNTGGACT
CCAGCGTTGGCTTCTTGATGCTGCGCGTTCCCCCATTCCTACATCAGAATGCATCCCGCATC
CAGACTCCAGCGTTGNTGCTCTACNTGCACGCTGTTGCCAAGTCCAAGNTACCATACTCCTGC
CTGAGCTATGACAACAGCCTCCTCACTGATCTCCCCCTTCTTCCCTTTGCCTCCTCCAGCTCA
TTTTTCACAGTGTAGAATGACATTTTGTGTTGTTNTGTTNTGTTNTGTTTGAGATGGAGTCTCGC
TCTGTTGCCCAGGGTGGAGTGCAGCGGTGCGATCTCGGCTCACTGCAACCTCCACCTCCCGGG
TTCAAGCGGATTCTCGTGCCTCAGCCTCCTGAG

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FIGURE 217

CACAGTTCCCCACCATCACTCNTCCCATTCCCTTCCAACTTTATTTTTTAGCTTGCCATTGGGAG
GGGGCAGGATGGGAGGGAAAGTGAAGAAAACAGAAAAGGAGAGGGACAGAGGCCAGAGGACTT
CTCATACTGGACAGAAACCGATCAGGCATGGAACCTCCCCTTCGTCACTCACCTGTTCTTGCCC
CTGGTGTTCTTGACAGGTCTCTGCTCCCCCTTTAACCTGGATGAACATCACCCACGCCTATTC
CCAGGGCCACCAGAAGCTGAATTTGGATACAGTGTCTTACAACATGTTGGGGGTGGACAGCGA
TGGATGCTGGTGGGCGCCCCCTGGGATGGGCCTTCAGGCGACCGGAGGGGGGACGTTTATCGC
TGCCCTGTAGGGGGGGCCCACAATGCCCCATGTGCCAAGGGCCACTTAGGTGACTACCAACTG
GGAAATTCATCTCATCCTGCTGTGAATATGCACCTGGGGATGTCTCTGTTAGAGACAGATGGT
GATGG

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FIGURE 218

CTCTTAGGCTTTGAAGCATTTTTGTCTGTGCTCCCTGATCTTCATGTCACCACCATGAAGTTC
TTAGCAGTCCTGGTACTCTTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACA
GCTGCTCCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGATGAAGCCCCTGATGCTGAA
ACCACTGCTGCTGCAACCACTGCGACCACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCA
ACCACTGCGACCACTGCTGCTCCTACCACTGCAACCACC

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FIGURE 219

CGGGCTTTGAAGCATTTTTGTCTGTGCTCCCTGATCTTCAGGTCACCCCCATGAAGTTCTTAG
CAGTCCTGGTACTCTTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACAGCTG
CTCCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGATGAAGCCCCTGATGCTGAAACCA
CTGCAACTGCAACCACTGCGACCACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCTACCA
CTGCTCGTAAAGAC

CGGGCTTTGAAGCATTTTTGTCTGTGCTCCCTGATCTTCAGGTCACCCCCATGAAGTTCTTAG
CAGTCCTGGTACTCTTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACAGCTG
CTCCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGATGAAGCCCCTGATGCTGAAACCA
CTGCAACTGCAACCACTGCGACCACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCTACCA
CTGCTCGTAAAGAC

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FIGURE 220

GGCTTTGAAGCATTTTTGTCTGTGCTCCCTGATCTTCAGGTCACCCCCATGAAGTTCTTAGCA
GTCCTGGTACTCTTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACAGCTGCT
CCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGATGAAGCCCCTGATGCTGAAACCACT
GCAACTGCAACCACTGCGACCACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCTACCACT
GCTCGTAAAGAC

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TGATTTTTACACACCCAGGATTTTTTGGAAATTGAGGAGACGGTTCAAGAGTTTAGCCTTGGAA
 NTGGCCCAGTATCCAGGTCGAGGTTCTGCAGAAGGTTGTGACTTTAGTAACATTTTTCTTCTT
 TCGGGGACGTGGCCTGCATGGCTATCTGCTCCTGCCAGTGTCCAGCAGCCATGGCCTTNTGCT
 TCCTGGAGACCNCTGTGGTGGGAATTCACAGCTTCCTATGACACTACCTGCATTGGCCTAGCCT
 CCAGGCCATACGCTTTTCTTGAGTTTGACAGCATCATTCAGAAAGTGAAGTGGCATTTTAACT
 ATGTAAGTTCCTCTCAGATGGAGTGCAGCTTGGAAAAAATTGAGGAGGAGCTCAAGTTGCAGC
 CTCCAGCGGTTCTCACTCTGGAGGACACAGATGTGGCAAATGGGGTGATGAATGGTCACACAC
 CGATGCACTTGGAGCCTGCTCCTAATTTCCGAATGGAACCAGTGACAGCCCTGGGTATCCTCT
 CCCTCATTCTCAACATCATGTGTGCTGCCCTGAATCTCATTGAGGAGTTACCTTGCAGAAC
 ATTCTTTACAGTTGCCCATGAGGAAATTGGAAACATTCTGGC

FIGURE 222

CGAAGGCTTGGGCGGANGCGTGGGCGCGGGAGTGCATGGCAGNTTTGGTTCCCAGACTTGCCC
GGACCCNTTTGCTTCACCTCCAGCTNTGNTGCTCCTNTACTCTTGGGTCGAGATCCCTTTGGA
GCCACAGCGAGGAACCCTGTGGTCCTCAGGCAGGTGTACCTTGAGTCAGCCCAGGAGCCCTCT
TTTCNTGTGTCAAAGCCTGCCCTCGGGCTNTGCTCACCTNTGGTGACCCTCCCAAGATGCCCC
TGCCCTCAGTTTCCCCCTCATGATCTGGCCTCTGCCCCCTTCTNTAGCCACAGCCTTTTAGTAC
ACTTTAGCAATNNCNACCNGAANTAGTTNGAGTTCCCCAATTCACCAAGCAAGACATGCAGTT
TCATGCCTCTGTGCCTTCGCTCATGCTTGTTTCTTCCGAACTTGGAATGCCTTCCCCTGCTCC
TCCTGCCTTGTCTGCCTGGCAAGTTCATCTCTCACGATCCCCTCAAAGGCCCCCTCCTCCAGG
AAGGCAACCCCTGTGCCCCCTCCCCCTCCAGGCTACCTCTGCACTTTGTCAATGCTTCTCTTG
GCACTTATCACACTGTATTTTACTTGTTTACATGTTTGTCTCCCC

FIGURE 223

NCCAATGCAGCCCTCCGGTTNTCCGCGAAGAAGTTCCTTGCCCCGATGAGCCCCCGCCGTGCG
TCCCCGATTATCCCAGGCGGGCGTGCGGCACCGGGCCCAGCGCCGACGATCGCTGCCGTTTT
GCCCTTGCGAGTAGGATGTGGTGAAAGGATGGGGCTTCTCCCTTACGGGGCTCACAAATGGCCA
GAGAAGATTCCGTGAAGTGTCTGCGCTGCCTGCTNTACGCCCTCAATCTGCTCTTTTGTTAA
TGTCCATCAGTGTGTTGGCAGTTTCTGCTTGGATGAGGGACTACCTAAATAATGTTCTCACTT
TAACTGCAGAAACGAGGGTAGAGGAAGCAGTCATTTTGACTTACTTTTCTGTGGTTTCATCCGG
TCATGATTGCTGTTTGCTGTTTCCTTATCATTGTGGGGATGTTAGGATATTGTGGAACGGTGA
AAAGAAATCTGTTGCTTCTTGCACTGTTTGGAAAGTTTGCTTGTGTTTCTGTGTAGAAC
TGGCTTGTGGCGTTTGGACATATGAACAGGAACCTTATGGTTCCAGTACAATGGTCAGATATGG
TCACTTTGAAAGCCAGGATGACAAATTATGGATTACCTAGATATCGGTG

FIGURE 224

TAAGTTCCTGCATTAAAACCATGCTGTNGCAATTGAGAGCTTAGCTCCACGGTTCTCAAAGGG
AGGTCCCTGGCCAACAGCATCAGCATCACCTTGAGGACNTANTNGCAATGCAAATTATCAGGG
CCCTTCTTCAGACTCACTGAATCAGAAACCNTGGGATAGGNCCAGCACGCTGTGCTTTAACAA
GCTCTAGGTGATGCCCAATTCATACTCAAGTGTGAGGCTGACTGGCTTATTTGAAGGGAGAGA
AAGGAACAGGCACATGGCGACATATCAGCATTTACACAAGGCGTGCTGGGTAACCATAGGAAC
ACCTTTATTACGGTTAAATAGGAAACAGGCATCAATGCAGAGGGCCCCCAGGAGAATCAGGAA
GGTCGCGACTGTCCTGTCTGAGGGCACTGTTGTGAAACGATGGCCGAAGGTGACAACCACAG
CAAAGTTTCAAGGAAGTTCCTGAAACGTGGAAAAACCCACTCAATGTCCTGCTCTCATTTAT
ATTGAGTGGCTTAAGTATTTATTTTCTTGGTTTTTTTAGAGGAAGGGAGGGTTGGAGGATTCTC
AAAGCATTCAAAGGACACCATATGCTGGCAGGAAATATTCAAGCTTTTAATGGAATAATGCA
ATGGAGGTG

FIGURE 225

TACCCTTGGCCACTTAAGTTGGAGAAATTTGAAATCAAGAAGTTNTCATTTTGAAGAAGCACG
AGTTCGGAAGACTTTAACATGGGTNTTTCCTTNTTGCAGCCNGTATACTTTNTGTCCANCCAGA
AACTGTATTTTTCATNTCAGCNTAGTGACGATGAATCAAGTAGTGATGAACCNGTAATCAGCCC
AGTCNTGCCTTTAGANGACNCCGTGTTAGGAAGAAGACCGTTTNTGNTTCAGAATNTGAAGAC
CGGNTAGTTGCTGAACAAGAACTGAACCTTNTAAGGAGTTGAGTAAACGTCAGTTCAGTAGT
GGTCTCAATAAGTGTGTTATACTTGCTTTGGTGATTGCAATCAGCATGGGATTTGGCCATTTT
TATGGCACAATTCAGATTCAGAAGCGTCAACAGTTAGTCAGAAAGATACATGAAGATGAATTG
AATGATATGAAGGATTATCTTTCCAGTGTCAACAGGAACAAGAATCTTTTATAGATTATAAG
TCATTGAAAGAAAATCTTGCAAGGTGTTGGACACTTACTGAAGCAGAGAAGATGTCCTTTGAA
ACTCAGAAAACGAACCTTGCTACAGAAAATCAGTATTTAAGAGTATCCCTGGAAAAGGAAGAA
AAAGCCTTATCCTCATTACAGGAAGAGTTAAACAACTAAGAGAACAGATTAGAATATTGGAA
GATAAAGGGAC

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FIGURE 226

GGTCCCCAACGGGCCCCCGGGTCGGTTTNCCGCGTTGGCCATGANTGCGNCCGTGTTCTTTC
GGNTGCGCCTTCATTTGCCTTCGGGCNTGCGNTCGCCCTTTATGTCTTCACCATCGCCATCGA
GCCGTTGCGTATCATCTTCCTCATCGCCGGAGCTTCTTCTGGTTGGTGTCTNCTACTGATTTTC
GTCCCTTGTTTGGTTCATGGCAAGAGTCATTATTGACAACAAAGATGGACCAACACAGAAATA
TCTGCTGATCTTTGGAGCGTTTGTCTCTGTCTATATCCAAGAAATGTTCCGATTTGCATATTA
TAAACTCTTAAAAAAGCCAGTGAAGGTTTGAAGAGTATAAACCCAGGTGAGACAGCACCCCTC
TATGCGACTGCTGGCCTATGTTTCTGGCTTGGGCTTTGGAATCATGAGTGGAGTATTTTCCTT
TGTGAATACCCATCTGACTCCTTGGGGCCAGGCACAGTGGGCATTCATGGAGATTCTCCTCA
ATTCTTCCTTTATTCAGCTTTCATGACGCTGGTCATTATCTTGCTGCATGTATTCTGGGGCAT
TGTATTTTTTTGATGGCTGTGAGAAGAAAAAGTGGGGCATCCTCCTTATCGTTCTCCTGAC

FIGURE 227

GACCAAGGGTCCGGGTAGNTTACCTATATTTGGTTNATGGTNTAATTATAGACCAGGAAAGAG
CNTNTTATGTCTCCATCTTGATTTCCGTGGCAGCCAANTGCCTNTATGNATATCTCCACATCC
CAGCTTTTTTCATAATAAATANTACATGCTGGTTGCTCGTGGATTGTTGGGAATTGGAGCAGGA
AATGTAGCAGTTGTTAGATCATATACTGCTGGTGNTACTTCCCTTCAGGAAAGAACAAGTTCC
ATGGCAAACATAAGCATGTGTCAAGCATTAGGTTTTATTNTAGGTCCAGTTTTTCAGACTTGT
TTTACATTCCTTGGAGAAAAAGGTGTGACATGGGATGTGATTAACTGCAGATAAACATGTAT
ACAACACCAGTTTTACTTAGCGCCTTCCTGGGAATTTTAAATATTATTCTGATCCTTGCCATA
CTAAGAGAACATCGTGTGGATGACTCAGGAAGACAGTGTAAAAGTATTAATTTTGAAGAAGCA
AGTACAGATGAAGCTCAGGTTCCCCAAGGAAATATTGACCAGGTTGCTGTTGTGGCCATCAAT
GTTCTGTTTTTTGTGACTCTATTTATCTTTGCCCTTTTTGAAACCATCATTACTCCATTAACA
ATGGATATGTATGCCTG

FIGURE 228

TGAAATTATTAAACCAAACAAACAAAAACCCGGAATGCATTGTATAGGATTGCATGTGA
AGTCTTTTNTANTGAATNTATATTTCCANTTGAAGTGATTTTAAGTTAACATNTGAAGGCAGG
AAATGATTNCCTTTCCAGTAAAAAGTNTAGNTAATTTAATTAANTTAGTGACACCACCAAGTG
TTTTGATATAACTAAATTTGTGGTAATAAGATTGTCTGCACCTGTATTCATTGTGGAANTTCC
TCTTTCATTGGAAANTTTNTTACTCAAGAATGACGGCAGTATTGTTTTCTTATATGTGCAATG
AAGTGGAATGGTTAACNGTATGCCCTTAAATTTAAAATGGGTTCCTTGTTCTGATGTTGTTTC
CTGAAATGATTTTTCTTCCTAACTGTGGTTTTCGGGTATGCAAGCCTAAATCTTTGTACACTT
TGTCTCACAGAATAGTTCTGAGGCTCCATGACAGGGTTTTGTCATTGTTGATGTTANTGTTGC
TTCGTTTTATAAAAAAGCCAAAATTTTTTCCAATCCAAACGTTACCTGTTTCCTTTCCTCA
AGNTATACCAGTGTAATACCAGTTACCTGTGGATCCATTTAATATGTTATCCCCACTAATTA
ATTTTCGTATATTATTTCCAATATTTGGAAAGCTCTTTATAGCCATTTGGTATTTCTTATTAC
CCAC

FIGURE 229

TTTTCAATTTGCCAGTTTGTGGATGATGAATTGACTTAAATCGAACTAAATTGGAATGTGAAT
CTGCATGTACGAAGCATATTCCCAATNTGATGAGCAATATGCTTGCCATCTTGGTTGCCAGAA
TCAGTTCCATTTCGCTGAANTGGACAAGAACAACCTTATGTCCCTGATGCCAAAAATGCACCTAN
TCTTTCCTCTAACTCTTGGTGAGGTCATTCTGGAGTGACATGATGGACTCCGCACAGAGNTTC
ATAACCTCTTCATGGACTTTTTTATCTTCAAGCCGATGACGGAAAAATAGTTATATTCCAGTTT
AAGCCAGAAATCCCAGTACGCACCACATTTGGAGCAGGAGCCTACAAATTTGAGAGAATCATC
TCTAAGCAAAATGTCCTATCTGCAAATGAGAAATTCACAAGCGCACAGGAATTTTCTTGAAGA
TGGAGAAAGTGATGGCTTTTTTAAGATGCCTCTCTCTTAACTCTGGGTGGATTTTAACTACAAC
TCTTGTCCTCTCGGTGATGGTATTGCTTTGGATTTGTTGTGCAACTGTTGCTACAGCTGTGGA
GCAGTATGTTCCCTCTGAGAAGCTGAGTATCTATGGTGACTTGGAGTTTATGAA

FIGURE 230

TCCTGCTGATGCACATCTGGGTTTGGCAAAGGAGGTTGCTTCGAGCCGCCCTTTCTAGCTTC
CTGGCCGGCTCTAGAACAATTCAGGCTTCGCTGCGACTAGACCTCAGCTCCAACATATGCATT
CTGAAGAAAGATGGCTGAGATGACAGAATGCTTTATTTTGGAAAGAAACAATGTTCTAGGTCA
AACTGAGTCTACCAAATGCAGACTTTTACAATGGTTCTAGAAGAAATCTGGACAAGTCTTTTC
ATGTGGTTTTTCTACGCATTGATTCCATGTTTGCTCACAGATGAAGTGGCCATTCTGCCTGCC
CCTCAGAACCTCTCTGTACTCTCAACCAACATGAAGCATCTCTTGATGTGGAGCCCAGTGATC
GCGCCTGGAGAAACAGTGTACTATTCTGTCTGAATACCAGGGGGAGTACGAGAGCCTGTACACG
AGCCACATCTGGATCCCCAGCAGCTGGTGCTCACTCACTGAAGGTCCTGAGTGTGATGTCACT
GATGACATCACGGCCACTGTGCCATACAACCTTTGTGTCAGGGCCACATTGGGCTCACAGACC
TCAGCCTGGAGCATCCTGAAGCATCCCTTTAATAGAACTCAACCATCCTTACCCGACCTGGG
ATGGAGATCACCAAAGATGGCTTNCACCTGGTTATTGAGCTGGAGGACCTGGGGCCCCAGTTT
GAGTTCCTTGTGGCCTANTGGAGGAGGGGCGAACCCCTTGCGGCGCAAGGGGTTCGGAACCC
CTTGCGGCCGCTGGGGTATCTCTCGAGAAAAGAGAGGCCCAATATGACCCACATACTCAATAT
GGACGAANTGCTATTGTCCACCTGTTTGAGTGGCGCTGGGTTGAT

FIGURE 231

TAGAGCGACAGTGAAGGGGCATGACCCTCAATGAGGACGGCCTTGTTTCCTGGGAGGNGTNT
AAAAATTCCAACCTACGGNTACGTTTTAGATGATCCAGATCCTGATGATGGATTCAANTATAA
ACAGATGATGGTTAGAGATGAGCGGAGGTTTAAAATGGCAGACAAGGATGGAGACCTCATTGC
CACCAAGGAGGAGTTCACAGCTTTCCTGCACCCTGAGGAGTATGACTACATGAAAGATATAGT
AGTACAGGAAACAATGGAAGATATAGATAAGAATGCTGATGGTTTCATTGATCTAGAAGAGTA
TATTGGTGACATGTACAGCCATGATGGGAATACTGATGAGCCCAGAATGGGTAAAGACAGAGC
GAGAGCAGTTTGTGAGTTTCGGGATAAGAACCGTGATGGGAAGATNGACAAGGAAGAGACCA
AAGANTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACCTGGTCTATG
AATCAGACCAAAACAAGGNTGGCAAGCTTACCAAGGAGGAGATCGTTGACAAGTATGANTTAT
TTGTTGGCAGCCAGGCCACAGATTTTGG

FIGURE 232

ACCGCCTTCAGTTACTCCAGGTAGCCCCGTAGCATTTAAAGAACAAAATCTGTCCAGTCAAAG
TGATTTTCTTCAAGAGCCGTTACAGGNTACTTCTTNTCCAGTTACTTGTAGCTCAAATGCTTG
CTTGGTTACTACCGATCAGGNTTCTTCTGGATCTGAAACAGAGTTTATGACCTCAGAGACTCC
TGAGGCAGCAATTCCCCCAGGCAAGCAACCGTNTTCACTAGCTTNTCCAAATCCTCCCATGGC
AAAGGGCTCTGAACAGGGNTTCCAGTCACCTCCAGCAAGTAGTAGTTCAGTAACCATTAACAC
AGCACCCCTTTCAAGCCATGCAGACAGTATTTAACGTTAATGCACCTCTGCCTCCACGAAAAGA
ACAAGAAATAAAAGAATCCCCTTATTCACCTGGNTACAATCAAAGTTTTACCACAGCAAGTAC
ACAAACACCACCCCAGTGC

FIGURE 233

CGGGAANCCCGANCCGGTTGCCCCGGGGAANCCGTGCGGCCCCCTCCGTCCCGTTCCCATCCT
TGCCGGGGTTCCAGCACCTTTGAAGTTTTTGCAGCGCCCGAAANGGAGGCGAGGAAGGAGGGA
NTNTNTGAGAGGAGGGAGCAAAAAGCTTCACCNTAAACATTTATTTCAAGGAGAAAAGAAAA
AGGGGGGGCGCAAAAATGGCTGGGGCAATTATAGAAAACATGAGCACCAAGAAGCTGTGCATT
GTTGGTGGGATTCTGCTCGTGTTCCAAATCATCGCCTTTCTGGTGGGAGGCTTGATTGCTCCA
GGGCCCACAACGGCAGTGTCTACATGTCTGGTGAAATGTGTGGATGCCCCGTAAGAACCATCAC
AAGACAAAATGGTTCGTGCCTTGGGGACCCAATCATTGTGACAAGATCCGAGACATTGAAGAG
GCAATTCCAAGGGAAATTGAAGCCAATGACATCGTGTTTTCTGTTCACATCCCCCTCCCCAC
ATGGAGATGAGTCCTTGGTTCCAATTCATGCTGTTTATCCTGCAGCTGGACATTGCCTTCAAG
CTAAACAACCAAATCAGAGAAAATGCAGAAGTCTCCATGGACGTTTCCCTGGCTTACCGTGAT
GACGCGTTTGCTGAGTGGACTGAAATGGCC

FIGURE 234

TTTGTTTCCCGGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACAGCC
ACATACCNTGTGGGTACATGCCATACGGCTGGTTGACGGAAATCCGTGCTGTGTATCCTGCT
TTCGACAAGAATAACCCCAGCAACAACTGGTGAGCACGAGCAACACAGTCACGGCAGCCCAC
ATCAAGAAGTTCACCTTCGTCTGCATGGCTCTGTCACTCACGCTCTGTTTCGTGATGTTTTGG
ACACCCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGACTTTGCCTTTGCAGAA
CTCTGTGTTGTTCCCTTTGCGGATCTTCTCCTTCTTCCCAGTTCCAGTCACAGTGAGGGCGCAT
CTCACCGGGTGGCTGATGACACTGAAGAAAACCTTCGTCCTTGCCCCCAGCTCTGTGCTGCGG
ATCATCGTCCTCATCGCCAGCCTCGTGGTCCTACCCTACCTGGGGGTGCACGGTGCGACCCTG
GGCGTGGGCTCCCTCCTGGCGGGCTTTGTGGGAGAATCCACCATGGTCGCCATCGCTGCG

FIGURE 235

CGGACGCGTGGGTTTAAAAATTACTCATAATCGNTCCATTGATAATACTAAATTTAGTTTCCC
CTGTCTTTAGTGTCTAATTGTCAGCCAGAAAATTAGGAATCTGTTGCACTTGATTTTTAAGTA
ACTTATCTAAAACATATGTGCCATTTTAACAGTGAGCATTACTTAGTTGCATTTTCCAAATTTA
TTATTTNNTCATTTCCTTAAGTGTAGACTATTATTTCAAATTTTAAATTTAGTTTTTGATGTT
TTAGAGAAATGAAGCCACAGTGGCTTAGCACATCTTTGTGTTTCTATTATTTATNTATTTTTT
TGAGACAGAGTCTTGCTGTGTTGCTCAGGCTGGAGTGCAGTGGTGCGATCTCAGCTCACTGCA
ACCTCTGCCTCCCGGGTTCAAGTGATTTTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAG
ACACCTGCCACCATGTCCGG

CGGACGCGTGGGTTTAAAAATTACTCATAATCGNTCCATTGATAATACTAAATTTAGTTTCCC

FIGURE 236

GAGGTCATCTCCATTTTCATCCCGGATAAATGAGTATGCAAGGAACGTTTTTATAGGCATTTTG
GAGATCAAAGATGGGTAGAAAAGATGCTGNTACTATAAACTTCCTGTTGATCAGTACAGAAA
ACAAATTGGTAAACAGGATTATAAAAAAACTAAACCTATTTTACGAGCTACCAAATTAAAAGC
AGAAGCAAAGAAAACAGCAATAGGCATAAAGGAAGTTGGCCTTGTACTTGCAGCTATATTGGC
ACTACTACTGGCTTTCTATGCTTTCTTTTATCTCAGACTCACCACGGAAATGTTG

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FIGURE 237

CGGGGGAACCCGAGCCGGTTGCGCCGGGGGAATCCGTGCGGGCGCCTTCCGTNCCGGTCCCAT
CCTNGCCGCGCTCCAGCACCTTTGAAGTTTTGCAGCGCCCAGAAAGGAGGCGAGGAAGGAGGG
AGTGTGTGAGAGGAGGGAGCAAAAAGCTCACCTAAAACATTTATTTCAAGGAGAAAAGAAAA
AGGGGGGCGCAAAAATGGCTGGGGCAATTATAGAAAACATGAGCACCAAGAAGCTGTGCATT
GTTGGTGGGATTCTGCTCGTGTTCCAAATCATCGCCTTTCTGGTGGGAGGCTTGATTGCTCCA
GGGCCCACAACGGCAGTGTCTACATGTCTGGTGAAATGTGTGGATGCCCCGTAAGAACCATCAC
AAGACAAAATGGTTCGTGCCTTGGGGACCCAATCATTGTGACAAGATCCGAGACATTGAAGAG
GCAATTCCAAGGGAAATTGAAGCCATA

FIGURE 238

TCCATAATGACCGTGTGGNTGTCCACAGCCCCGACAGAGCCCCCTGACCCAATTGTACCAGGT
GCGGTGCCTGTTCCAGTCACCATTTGTTTCGCCAAGGCAGGGGACACGNTTTCAGGGACATGTTT
GNTTATTGCCAACAAAAGACAGAGNTACGACATCAGTATTGTGGCCCAGGTGGACCAGACCGG
CTCCAAGTCCAGTAACCTCCTGGATNTGAAAAACCCCTTNTTTAGATACACGGGCACAACGCC
CTCACCCCCACCCGGNTCCCANTACACATNTCCCTCGGAAAACATGTGGAACACGGGCAGCAC
CTACAACCTCAGCAGCGGGATGGCCGTNGCAGGGATGCCGACCGCCTNTGACTTGAGCAGTGT
TATTNCCAGTGGCTCCAGCGTGGGCCACAACAACCTGATTCCTTTAGGGTCCTCCGGCGCCCA
GGGCAGTGGTGGTGGCAGCACGAGTGCCCACTATGCAGTCAACAGCCNG

TTCCCCTAATGGGTTGTTTGACCCCCATTCCGGTTGNTAAGTGGTTTTTCCC
NATCATCGGCC
AAATTGGNATTTTTCANATCCACAGGNGTCATTGGGANTTTGGGGGCCCTAATTTGTTT
CAGACAGGCCGGGAGGCAGTTTGCCAGAAGGATTCTTAAGTAANTGACCCAGCCCTTTG
CCCCCACC
CCTGGGGTACCGAGACATGGGTAGGGATTAGAGCAAGAGTTGAGAGTCAGACCATCCAG
GAAC
CACATNTNTGGACCTTCAGAAGGAGGACAACATGGCCTTTGGAAAGCCTNCCAAGTACT
GGAA
GTTGGACCCTGNTCAGGTNTATGCTAGCGGGCCCAACGCATGGGACACGGCTGTGCACG
ACGC
CTCTGAGGAGTACAAGCACCGCATGCACAATCTCTGCTGTGACAACCTGCCACTCGCAC
GTGGC
ATTGGCCCTGAATCTGATGCGCTACAACAACAGCACCAACTGGAATATGGTGACGCTCT
GCTT
CTTCTGCCTGCTCTACGGGAAGTACGTCAGCGTTGGGGCCTTCGTGAAGACCTGGCTG
CCCTT
CATCCTTCTCCTGGGC

FIGURE 240

TTTTTCAGGGAGAATTTTGAGGCTNTGTTGAGAATCATGCTTTGGAGGCAGCTCATNTATTGG
CAACTGCTGGCTTTGTTTTTCCCTCCCTTTTTGCGTGTGTCAAGATGAATACATGGAGGTGAGC
GGAAGAACTAATAAAGTGGTGGCAAGAATAGTGCAAAGCCACCAGCAGACTGGCCGTAGCGGC
TCCAGGAGGGAGAAAGTGAGAGAGCGGAGCCATCCTAAAAGTGGGACTGTGGATAATAACACT
TNTACAGACCTAAAATCCCTGAGACCAGATGAGCTACCGCACCCCGAGGTAGATGACCTAGCC
CAGATCACCACATTCTGGGGCCAGTNTCCACAAACCGGAGGACTACCCCCAGACTGCAGTAAG
TGTTGTCATGGAGACTACAGCTTTCGAGGCTACCAAGGCCCCCTGGGCCACCGGGCCCTCCT
GGCATTCCAGGAAACCATGGAAACAATGGCAACAATGGAGCCACTGGTCATGAAGGAGCCAAA
GGTGAGAAGGGCGACAAAGGTGACCTGGGGCCTCGAGGGGAG

GGTGATCTGAAAGATAGCCAAGGATTTTTTCAGAACACAAGAAAAAAGAGGGATGAAAAGTGAA
AAAGAAATTAGAAGATATGGATAATAAATCCCAGGAGAGGTAATATGCATCCAATCAAACATN
TAATAGAAAAATTTCTTACAGGGAATAAAAGAAAAAGATTCTTAAGATCGAAAGGGCCAGTTGA
TAGTGGTACCCAGGAGGAAGGAGTGGTTTTTCACCCAGATATATCCTGGTGAAAATTTCTGAAT
TCTGCAGCTTACAAGAAAATTTCTGAACCTCTCCAGGGAAGAACAAAGCTATGTACAAAGGAATA
AGAATCTTATTCATTACACTAAAGACAATGCTTTTGATCATTGTCTATAGCTATGTGTATTTT
GAACCTAGAATTCCGTACTCAGCCCAACTGTCATTTATGTATGAGAACAAAATTAACTTTTTG
GAATTTGCAGACTCATATTCTTTTCGAAAAAATACTGTGGGATGTACCAAAACAAAAAATA
AGTCAAGAAGCAACAACCTCAAGGCATAAGAAACAGTAGCGAG

FIGURE 242

TTCCAGAGAGCCCTTGAGAAGACCAAGGGCAAAGTGAGCATGAGGTTCTCCTCTCTCTGCCCA
CCCTCCACGTCCACTGCCTCTGGCCGCAGACCCAGCNTCGTGATCGATGGGAGAAGCNTGGCC
TACGCTCTCGAGAAAAACCTGGAGGACAAATTCCTCTTCCTTGCCAAGCAGTGCCGCTCCGTC
CTCTGCTGTGCGTCGACGCCTCTGCAGAAGAGCATGGTGGTGAAGCTGGTGCGGAGCAAGCTC
AAGGCCATGACCCTGGCCATAGGTGATGGAGCCAATGATGTCAGCATGATCCAGGTGGCAGAT
GTGGGTGTGGGAATCTCCGGCCAGGAGGGTATGCAGGCAGTGATGGCCAGCGACTTTGCAGTG
CCGAAATTCGATACCTGGAGAGGCTCTTGATTCTTCACGGGCATTGGTGCTACTCCCGACTT
GCCAACATGGTGCTGTACTTCTTCTACAAAAACACAATGTTCTGGGCCTCCTGTTTTTGGTTC
CAGTTTTTCTGTGGCTTCTCTGCATCTACCATGATTGACCAGTGG

FIGURE 243

TTCCCAGCGAGGATCCTGTCCCTGGAGGCTGTAATTTGGAGTTCGATTTAGATATTGATCCCA
ACATTTACTTGGAGTATAATTTCTTTGAAACGANTATCAAGTTTGCCCCAGCAAACNTAGGCT
ATGCGAGAGGCGTAGATCCCCCACCATGTGACGCTGGGACAGACCAGGACTCCAGGTGGAGGT
TGCAGTATGATGTCTATCAGTATTTTCTGCCTGAGAATGACCTCACTGAGGAGATGTTGCTGA
AGCATCTGCAGAGGATGGTCAGTGTGCCCCAGGTGAAGGCCAGTGCTCTCAAGGTGGTTACCC
TAACAGCTAATGATAAGACAAGTGTTCCTTCTCCTCCCTCCCGGACAAGGTGTCATATACA
ATGTCATTGTTTGGGACCCGTTTCTAAATACATCTGCTGCCTACATTCCTGCTCACACATACG
CTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTCCCTAGGAAGAGTGTCTTCCAAAGTGT
TCTTCACTCTTTTTGCCCCTGCTTGGTTTCTTCATTTGTTTCTTTG

FIGURE 244

ATTCTTAAGTCAGTTGATCCANTTATTCATTCATCAAATATTGATTGAGAACCTACTGTGTGC
CAAGTGTTATTTTAGGCCCTGGGACCAAGTAATAAATAAGAGGACACAGGCCATGCACTCACG
GAGCTTCTGTTTTCTTGGCAGAGCAGACATGGGGCAGGGTGGTCTGAGGGTCTCCTCAGGAT
GGTGTGGTCTGTGCTGGTTGTGGTTGTCTTGACAGGTTGGGCCTCATGGGCAGATGGTACCTG
TCAGGCAGGGAGTGTGGGGGCAACCAGGATGAACAGTTATAAGACCATTTCTAATACTTGTAT
TTTTTTTTCTCCTAGGGAAAAATTGGAAGAAAAAGCCAAATTATATGAAAAAATGACTAAAGG
AGACTTTATAGATGAAGAAGTAGAGGATATGTACCTTGTGGATTTCACACAGAAGATCATAGA
CAAGCGC

FIGURE 245

GGNTACCCGAAGGCCAAGCTTTTAAACAATTTTGNTTTGTAATCAATGNGTAATTCATGATGA
ATTATTTTGGACTAATGGNTAGCCGAAGGCCAAGCTTTTAATTNTAATAGGTAATGTTCTTCTT
TTGTCTTATTGAAACAATGNGAATANTCTGTGCATTTCAAATGCACTCCGATTATGCTGTGGT
TTTATTCACATAAGCACAAATATGTGTTTTATTATAANTTCATAACAAANTTATAATATAATA
ATTTACCTTAGCAGACATGCAAAAGCTTATTCTTGTGTGANTTACTTTCTTTAAGNTAATAAT
ATAAAAATAAATATGTATCTTAAAAATCTATAATAAAACATTNGAAATTAAAGATATGTGCTT
TTTATTTTGCAGATGAGTTCATTTGCTTCTGTAGATGTGTTTTTCAGAGNTAGGTACAGAGGAA
TGTTTGNTACCTTTAGCGGTGAAAAAAGAAAGAGNGTCNAGAATTTTGTTGGATTGTGTTTGT
GTGTGCATATATTTGATATCATCATCATAACATTGTAATCTTTGGACTTGTAATCATAGCCTNN

FIGURE 246

TTCCCACTGTAATGCCAAATGATCCATAGCCTNTTCAGATTCCCTTATAAAATTTAAACCAAGA
GAGGAGAGGAAAGGGTAAATTTTCTGTAATGACCTTNTGCTTAATAGTCTTNTAGAAAAAGGA
AAGGTGATGAGCAAATAAAGGAACTTNTAGANTTTACATGACTAGGCTGATAATCTTANTTTT
TAGGNTTCTATACAGTTAATTCTATAAATTCTCTTTCTCCCTCTCTTCTCCAATCAAGCACTT
GGAGTTAGATNTAGGTCCTTNTATCTCGTCCCTNTACAGATGTATTTTCCACTTGCATAATTC
ATGCCAACANTGGTTTTCTTAGGTTTCTCCATTTTCACCTCTAGTGATGGCCCTANTCATATC
TTCTCTAATTTGGTCCTGATANTTGNTTCGTNTCACGTTTTCCCATTTCCCTGTGGCTCACTG
TTTTACAATCACNGCTNTGGAATCATGATACCACTTTTAGCTCNTTGCATCTTCCTTCAGTGT
ATTNTTGTTTTTCAAGAGGAAGTAGATTTTAAATN

FIGURE 247

CGGAGCCTNTGCAGGAGGAGCTTTTCGGTCCTGGCCGNGATTTTNTGCAGGCCCCACGAGTGG
GAGGTGCTGAGCCGNTCAGGTTCTCCCTTTTGCCACTGGAATCAGGAGAATGTTGCAGAGGAA
TTGCATTCTGCTGGTAACAAGATAACCCAGCAAGACTCAGACTGCTAACCCAAGGATCAACTATT
AAGGCCAGACAGATGGGACCGTGTTTCCAGAAATTCACACAAAAGCTGAAGGATTTATGGATGCGG
ATATACCTCTGGAATTGGTGTTCCATTTGCCAGTCAATTATCCTTCATGTCTACCTGGTATCT
CGATTAACTCTGAACAGTTGACCAGGGCCCAGTGTGTGACTGTGAAAGAGAATTTACTTGAGC
AAGCAGAGAGCCTTTTGTGCGAGCCTATGGTTCATGAGCTGGTTCTCTGGATTCAGCAGAATC
TCAGGCATATCCTCAGCCAACCAGAAANTGGCAGTGGCAGTGAAAAGTGTACTTTTTCAACAA
GCAC

FIGURE 248

TCGGGTTTTTCGGAGCAGTTTTTCGAATGGACAGCTCCGTGGAGGAGGATGAACTTATGTTAAAT
GAAGGTAAGAGTTTTTGGGCATNTTATGCCCCCTTTGNTCTNTGACAGCTCTGTGTCTTGTCTT
TGGCCTNTATCCACCTCCTTCCAAGACAANTGATGATAAGACCAGCGGCTTTAAGAAATGTGA
AACCAAGTCAATTGTGTTCATCGTCCATCAGTGCTTTTACATTGCCTGTGATCAAAATTAATAA
CTGTGTTATTGATGAGCCCAGTATAGATAACATCACTGAAGATGCTGACAACCTCAAAAGTAG
GTCAAGGAATTTGTCAATGGATTCCCTTGTGGTTCCCTTTGCCCAACACCAGTGAATCCTTCCA
GCCCCTCAGCACAGTGNTACCAAGGAATAATTCCATTGGGGAGTCGTTGTGAGTCAGTACAA
GTCATCTATGGCTCTCGGACCTGGGGNTGGACAGCTCTTGTCTCCTGGGGCTGCCAGAAGACA
GTTTGGGTCCAATACATCCTTGCATTTGCTCTCGTC

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FIGURE 249

TCCTTACAAGGNCCGTGTAACATGACACTGTTAATGATTGCATTTGGCTTGCTGTGGGGGCAT
TTNTTGCGGATCAAACCCACGCAGAGNGTTTTCATTTTCCAAGTGTCTGTCCTTGTCAGCAC
ACCCCTTGTGTCCAGGTTCTCATGGGCAGTGCTCGGGGTGACAAAGAAGGCGACATTGANTA
CAGCACCGTGCTCCTCGGCATGCTGGTGACGCAGGACGTGCAGCTCGGGCTCTTCATGGCCGT
CATGCCGACTNTCATAACAGGCGGGCGCCAGTGCACTTTCTAGCATTTGTCGTGGAAGTTNTCCG
AATCCTGGTTTTTGATTGGTCAGATTCTTTTTTCACTAGCGGCGGTTTTTCTTTTATGTCTTGT
TATAAAGAAGTATCTCATTGGACCCTATTATCGGAAGCTGCACATGGAAAGCAAGGGGAACAA
AGAAATCCTGATCTTGGAATATCTGCCTTTATCTTCTTAATGTTAACGGTCACGGAGCTGCT
GGANGTNTCCATGGAGCTGGGCTGTTTCCTGGCTGGAGCGCTNGTCTCCTNTCAGGGCCCCGT
GGTCACCGAGGAGATCGCCACCTCCATCGAACCCATCCGCGANTTCCTGGC

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FIGURE 250

CAACTTACCTGAAATGCGCTATTGAATGCACGNGNGGAAAATCCTTGGGTTCCAGGATGACAC
CTANTANTGCAGTTTGATTGGCAGAATNGTCGATACGATGGCTGGCAAATNTCCTGGTCCCTT
TCCCAANTGTGACTGGNGATTCAATGAGTTTCCCAACCCAGTTGCCCATGNTCTCCATGTTAC
TTGTGTGGAGCTCATGGCCTTGGCAGTTTCAGGCAAAGAAGTTGGGAATGCCCTTCTAAATGT
TGTCCTAAAAAGTCNGCCTTTAGTGCCAAGAGAGAACATTGCAGCATGGATGAATGCAATTGG
TTTGATCATCACTGCCCTACCAGAGCCATATTGGATTGTTCTTCATGATCGAATTGTGAGTGT
CATCAGCAGCCCCAGNTTGACGTCTGAAACAGAGTGGGTTGGNTATCCATTCCGCCTCTTTGA
TTTCANTGCCTGTCATCAGTCCTACTCTGAGATGAGTTGTAGNTATACGTTAGCTCTTGCACA
TGCTGTGTGGCACCATTTTAGCATCGGACAANTTTNTCTCATTCCAAAGTTTCTTANTGAAGT
ANTTCTTCCTATAGTGAAGACCGAATTCCAGTTGCTTTATGTATACCATCTTGTTGGAC

GAAGGGGCATTTTTCAGGGGAGCAGAATGACAAGACNTATTGTCAACCTTGCTTCAATAAGCTCTT
CCCACTGTAATGCCAANTGATCCATAGCCTNNTTCAGATTCCCTTATAAAATTTAAACCAAGAG
AGGAGAGGAAAGGGTAAATTTTTCTGTTACTGACCTTCTGCTTAATAGTCTTATAGAAAAAGGA
AAGGTGATGAGCAAATAAAGGAACTTTTAGACTTTACATGACTAGGCTGATAATCTTATTTTT
TAGGCTTCTATACAGTTAATTCTATAAATTCTCTTTCTCCCTCTCTTNTCCAATCAAGCACTT
GGAGTTAGATCTAGGTCCTTCTATCTCGTCCCTCTACAGATGTATTTTCCACTTGCATAATTC
ATGCCAACANTGGTTTTCTTAGGTTTCTCCATTTTCACCTCTAGTGATGGCCCTACTCATATC
TTCTCTAATTTGGTCCTGATACTTGTTTTCTTTTCAGTTTTCCCATTTCCCTGTGGCTCACTG
TCTTACAATCACTGCTGTGGAATCATGATACCACTTTTAGCTCTTTGCATCTTCCTTCAGTGT
ATTTTTGTTTTTTCAAGAGGAAGTAGATTTTAACTG

FIGURE 252

ATTTGTTTGTATAATATAATACATATAGATAGAGGGGCGATAATATANTGGTAGACAAAGAAT
GCAGGAAATGCCCTTATTCATCACACCACCAAGCAGGCCTCACCCCTAAAGACCCAGCAAAAGT
AACAAAAGCACATTTGGAAACCCAGGAAGCCAGTAAAAGTAAATCTAAAGGCTGACAGGGTGT
ACATTATTATGTATGTGCAATATAAATCAAATTCAAAGCTGTTTTCTCTTAAATTTTGATANT
TATAGAGACAGGANTTGCCATGGGGAATTTCTTTCCCCTTACTATATAATTTTATTACTAGAA
GGAAAAGTAATAGCAATGATAATAATGAACAGACTTNGTGTCTTTATTACATTTGCTTTCCTA
GTTACCTTTAGANTGTCACCTTCTGAGTTCTTTCTCTGACATGCTTTTCTTTTCTCGTGAAGCG
TCTTACATTCTGAC

FIGURE 253

AATTTNTATNTACATTTGTGATAATATAGNTAGTGCCTAAGAATATTTCCCCAAGGTCAGTTA
AGCAAGATTTTCTTATGATCATCATTTGCCATGAACTTTCAAACATAGCGATNTTGTGAAAACA
GTGCCTGTTAATTTACAATGTTTACCTTGAACAGTTGTCAAGTGTGATTTTTATAAGGAGTTG
GTATGTTTNTAAGCAGTTATNTACTTGATCTTTTTAATANTGGGGTTAAGGGAAACCTGCTTA
CAGCATCACCTATTTTTTCATTCAAATGGCACATAATNGNGCATGTGTAACAGTTGTGTACCTT
TGTGGGGTTNTTTTGTTNTTTGNTTTTCTTTTTGAGACAGGGTTTCGTTCTGTTGCCCAAGNT
GGAGTACAGTGGNTCGATCTCANTGCAACCTCCACCCCCCAGGCTCAAGTGATTCTTTCACCT
CGGCCTCCTGAGTATCCGGG

FIGURE 254

CAGCGAATGTTGGGGAACNTGATTCGGCCTCCATATGAAAGGCCAGAGCTCCCCACATGTCTC
TATGTAATTGGGCTGACTGGCATCAGTGGCTCTGGGAAGAGCTCAATAGCTCAGCGACTGAAG
GGCCTGGGGGCGTTTGTCAATTGACAGTGACCACCTGGGTCACTCGGGCCTATGCCCCAGGTGGC
CNTGCCTACCAGCCTGTGGTGGAGGCCTTTGGAACAGATATTNTCCATAAAGATGGCATCATC
AACAGGAAGGTCCTAGGCAGCCGGGTGTTTGGGAATAAGAAGCAGCTGAAGNTACTCACGGAC
ATTATGTGGCCAATTATCGCAAAGNTNGCCCGAGAGGAGATNGATCGGGCTGTGGCTGAGGGA
AAGCGTGTGTGTGTGATTGATNCCNCTGTGTTGCTTGAAGCCGGNTGGCAGAACCTGGTCCAT
GAGGTNTGGACTGCTGTCATCCCAGAGACTGAGGNTGTAAGACGCATTGTGGAGAG

FIGURE 255

CATTATCAACCCAGCGCCACTCAAACAGGTGGACAATANCAGTTCGTCCATATTGAGTATGTG
GGTCATATTGGGCCTCTCTTTTCTCGAGAGATAACCCAGCGGCCGCAAGGGGTTCTGGGGTGAT
AATAGATCAATGTGTTGGAAGTGATGGGGATGGAGAGGCGAGTCCCACTGGCGATCCGCAGCA
GGATGCCCATCAGAGAGAAGCTGGGGCTTTCAGGACAGCATAGAAAGGCTCCACCCGGGCTG
GATGCTCCAGGACCATCCCTTCATTCTTAAAATGGGCAACGAGAAACCAGGAGACGTCCACCT
CACCTTGAGGGGAGATGAAGTGGGGGAGGTGGATTTCTGGCGACAGCCTCCTCTGGCTCTGCAG
TGACATCAAACAAGGGGCCGCCACCAGCCACTGTTTCATGGTGCTGCAGGTCCAGGGCCAGGT
GCTGACTCCAGGAACCAAACGCAATCGTCACTGTGACCTCATCCCTTACCAGGAAGCCGAGGC
CTGTGGCTGACCACAGATACCAGCCAGCAGTGGGGAACCAAACGCTGTATCTGTTTGTGCTCT
TATCAATCAACTCAACATCCACATTTCTTTCAGGCCCCAGAACTGACGATTTTTTATAATCTT
CTTCGATCTCAAAACAGACTTTAGAAGCATAAGAGGAACTATTTGATTCTCTTCTGAGCAAA
TGTCTCCTGAATCTTGTCCCTCTGAAGATTCCTGCTCTTCTGATACTGGGAATGTCCCCC
CAGATAGTTGACACTCAGGAACAGCACGGAACAATAATGGCTCTGCCTCTGTCTCATCATCTT
CTTGGAATAAATGTGAGCGGACGCGTGGGTCTGAGGTCTGAGGGATCTCTAGAGGATCCGGCCAG
TGTGGCCTATCGATAGCTTGGAGTTGATTGT

FIGURE 256

TGGGGATCCTTGGACCTTGGACCCAGGNGTCCGTGGACGCTTGGTAGAAAGATGGCGGAGCAA
GAGCAAGGAAAAATCCCTNTGGTTCCAGAAAATCTCCTGAAAAAGAGGAAGGTTTATCAAGCC
CTCAAAGCCACCCAGGCAAAGCAGGCACTTTTGGCAAAGAAGGAGCAGAAGAAAGGAAAAGGG
NTCAGGTTTAAGCGANTGGAATCATTCTACATGATTCTGGCGGCAGAAACGTGACAAGGTG
CGTCTCAGACGACTAGAAGTGAAACCTCATGCCTTGGAATTGCCAGATAAACATTCCTTGGCC
TTTGTTGTACGCATCGAAAGGATTGATGGCGTGAGTTTANTGGTGCAGAGAACCATTGCAAGA
CTTNGCCTAAAGAAAAATTTTATAGTGGTGTCTTTGTAAAAGTCACCCCCCAGAATCTAAAAATG
CTGNGTATAGTGGAACCTTATGTGACCTGGGGATTTCCAAATNTGAAGTNTGTCCGNGAANTC
ATTTTGAAACGTGG

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FIGURE 257

TGGCCAGAATGTGAATGTATTGAATGGAGTGAGAGAAGAAATGNTGTGGCATCTNTTGTNGCA
GGTATATTGTTTTTTACNGGCTGGTGGATAATGATTGATGCAGCTGTGGTGTATCCTAAGCCA
GAACAGTTGAACCATGCCTTTACACATGTGGTGTATTTTCCACANTGGCTTTCTTCATGATA
AATGNTGTATCCAATGCTCAGGTGAGAGGTGATAGNTATGAAAGCGGCTGTTTAGGAAGAACA
GGTGCTCGAGTTTGGNTTTTTCATTGGNTTCATGTTGATGTTTGGGTCAC

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FIGURE 258

ATCATATGGGCACAAATNTGGTGTCTTTATGGNGAAAACCTCAAGTAAAAGTTTTATT CNTG
CCTTTGAAAATGGTTCCAAAAGTAGACCCTGTCCCCACACAGGTCAAGACNACAGAGAAGGCT
TTGTAGAAATGTGTCACCTATGTACACCTGNTACTTACACATTTCTCTTTTGGA AAAATGAG
NTANTTAGAATNACAAGAAAATTAAGACATACTGGCCTGGTGCCAGCAGATGGCTTTTCTATA
GACAAACTAGGTTAGTGTGGAAGATATNGGTTAAAATAAACTATGCTGTTTTATTATCTTCC
CAACCTGATTGGCAGNTAGACTTTTTTAGGGTCTCATTTAATGGCCCTGTTTTTTTCATTATT
ATATTTAATGNTAGGGCAGGATTTNGTATGCAAGCTCTTGTTTNTCAGGNTGCCTGCAGAAGA
AGTCGCTATAAATTATCTGTTGTCTACATGGTACAAGGCCCAT TGANTCATCTGATGCTTGTT
TTGTTAATTTCTTTAATATTTTTTATCACGGGGCAGTGGGAG

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FIGURE 259

AATGGCGGTGTNTACAGTGTCTGGANTTNGTCGNTGATGCTTGCTCTGTCAAGGCACAGCCT
ATTGTCTCCTTTGCTCAGTGTGACATCATTCAGACGCTTTTACAGAGGTGACAGCCCAACAGA
TTCCCAAAAGGACATGATTGAAATCCCTTTGCCTCCATGGCAGGAGAGAANTGATGAATCCAT
NGAAACCAAAAGAGCCCGCCTGNTCTATGAGAGCAGAAAGAGGGGAATNTTGGAAAAGTGCCA
GGTAGTGGAGTAAAAAAGGNGACAGTTTATTTTTTTTATTCTATGTGCACANTTACAGTATACA
TATATATTTATATCACAATTTACGAAACCAAAAAGTTGAGTTTCCAATGGAACCCTTGTTTTT
TAATAATNGACTTTTTAAATGTGATCAAGACTATAATATTGTACAGTTATTATAGGGCTTTTG
GGGAAGGGGAGGATAGCGAGAAGATGCTCTGGGGGTTTTGTTTTTGGCTTTTCCTTCAGGGTTT
TATTTTTGANTGTTTTGTTTTCTTGTTGGCC

FIGURE 260

TGGATTTATANTTTTCTTCTATGTAGTTACTATAAAAAGTGTGCTGGATTTGACCAATCCTTAC
CCCCANTATAAAGAGAACCCGTGATGACTTTAGTTTAAAAATTGTGGAAATTGTGGAGCAATT
TTTCTCACAATGTGAGAAAAATTNTAAACCATATTAGATAATGTGGAAGTCATATTGTCTATC
ATATATACTGCCATTTAAAAATAGGTTTTTAAAANTTAGNTAAGTCTTAAGTAATTTGCCGTT
GNTAATAATTTTATCTCCTTGAGTCGGTTGTTGGGGAGAGATGTTATATTCAATAATTTTAG
TTATTTTGTAATGCAGAGTGTTTATTCATTTACAGTTNTGCAATGGATGTAGTANTTTGGGA
TTGCCCTGTCCAGAAAANTTTCAGGTACACACCTTTAAAGGNAAATGTTTNTATNTCAGATGA
AACATGTAATTTGGGATGGTTCTTCCTTTGTCANTTAAAGGNAGNTAGGAAAAGTCTCTTACC
CACTTTAAACATGAG

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FIGURE 261

TCTGTGGTCAACGGGGTCATCTTTAAATGNTTGGCCGTGNTTGCCCTGTCATCCCACNTGAGA
ACCATGCTCACCGACCCTGGGGCAGTACCCAAAGGAAANGNTACGAAAGAATACATGGAGAGC
TTGCAGCTGAAGCCCGGGGAANTCATTTACAAGTGCCCCAAGTGNTGCTGTATTAAACCCGAG
NGGGCCCACCANTGCAGTATTTGCAAAAGATGTATTNGGAAAATGGATCATCANTGCCCGTGG
GTGAACAATTGTGTAGGAGAAAAGAATCAAAGATTTTTTGTGNTCTTCANTATGTATATAGCT
CTGTCTTCAGTCCATGNTCTGATCCTTTGTGGATTTTCAGTTCATNTCCTGTGTCCGAGGGCAG
TNGANTGAATGCAGTGATTTTTTCACCTCC

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FIGURE 262

CATTCTTGAACCACTTAATCCTCTNTTGACAACANTNGTAGAACAGAATCCTGAAGATATGGG
NGACCTATACCTAGATGTTGCTGAAGCTTTTCTGGATGTTGGTGAATATAATTCTGCACTTCC
CCTCCTCAGTGCTCTTGTTTGCTCTGAAAGATACAACCTTGCAGTAGTTTGGCTTNGTCATGC
AGAAATGTTTAAAGGCCTTAGGNTATATGGAGCGAGCTGCTGAAAGCTATGGCAAGGTGGTTGA
TCTGGCCCCANTCCATTTGGATGCAAGGATTTCACTTTCTACCCTTCAGCAGCAGCTGGGCCA
GCCTGAGAAAGCTNTGGAAGCTCTGGAACCAATGTATGATCCAGATACTTTAGCACAGGATGC
AAATGCTGCACAGCAGGAANTGAAGTTATTGNTTCATCGTTCTACTCTGTTGTTTTTACAAGG
CAAAATGTATGGTTATGTGGATACCTTACTTACTATGTTAGCCATGCTTTTAAAGGTAGCAAT
GAATCGAGC

FIGURE 263

TTGAGACCTGGATGAACAAATTTATATCCTTTCCTTNGAGGAAGAAGCACTCCAGAGACGANT
AAATGGGNTGTCTTCATCGGTGGAATACAACATAATGGAGTTGGAACAGAACTTGAAAATGTA
AAGACTCTTAAGACAAAATTAGAGAGGCGAAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTG
TATCCCGCTGTTATGGTTCTCCTTCTTATTGAGACATCCATCTCGGTCCTCTTGGTGGCTTGT
AATATTCTTTGCCTATTGGTTGATGAAACAGCAATGCCAAAAGGAACAAGGGGGCCTGGAATA
GGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGCGCTTGAAATCATTTTGATTTTC
TATCTTATGGTGTCTCTGTTGTCTGGCTTCTATAGCCTTCGATTTTTTGGAAACTTTACTCCC
AAGAAAGATGACACAACATATGACAAAGATCATTTGGAAATTGTGTGTCCATCTTGGTTTTGAGC
TCTGCTCTGCCTGTGATGTCTGAGAACACTGGGAATCACTAGATTTGATCTACTTGGCGACTTT
GGAAGGTTTAATTGGCTGGGAAATTTCTATATTGTATTATCCTACAATTTGCTTTTTGCTATT
GTGACAACATTGTGTCTGGT

FIGURE 264

TTTTTTTGGTAGAGATGGGGTTTCGCCATGTTGCCCAAGCTGTTCTTGAAC TCCCGGGCTCAA
GTGATCCGCCTCCCTNGGCCTCCCAGAGTGCTGGGATTACAGNCACGGACCACCATGCCCAGC
CTCCACATCTTTTTTTGCACTGTGTATACTCTTNTGAGACATGCCAACTTCCTCCAGGTCAAG
AAAGGGGTATATAGCTCTCAGCTTCACTCTTTCAGGGCTGATGTCGCCTTTGCCTTTTCTCAC
TTCCTGACCTGTCTATTCTACAACGTCTCTTTCTAGAGAAGCCTCAATGATCAGGATTGA
CAGGCCACACTCTCCCCCACCATTTTTTTCTCCTCCTTCAAGCCTCTTGTCTGTTTCACCCTC
TTCCACCTTGAGAGCTGAGGTCTTATTTGACTCTTCACCTGAATTGACCTTCTTCCTTCCCAC

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FIGURE 265

TGAGATCTTTTTCTCTAATTNTCAGAAGTGTTTCAATGNTATTAATTCATTATTTCTCCTCT
CTGNTTTTTTTTTTAATTCCTGTCTGGGGAATCCTGTTATCCTGATATGAGCACTCTACTTCT
ATTCTCCATAGCACTTAGCTCCTTTAAAAATATTCTCTTTGTTCTCTACTTCTGCCTTCTGGG
AGAGTTTCTCAG

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FIGURE 266

TTTTTTTTTCAAGTCTTGATTTGTGGCTTACCTCAAGTTACCATTTTTTCAGTCAAGTCTGTTT
GTTTGCTTCTTCAGAAATGTTTTTTACAATNTCAAGAAAAAATATGTCCCAGAAATTGAGTTT
ANTGTTGCTTGTATTTGGANTCATTGTTGGGGATTGATGTTANTGCACTATACTTTTCAACAACC
AAGACATCAAAGCAGTGTCAAGTTACGTGAGCAAATACTAGANTTAAGCAAAAGATATGTTAA
AGCTNTAGCAGAGGAAAATAAGAACACAGTGGATGTGCGAGAACGGTGCT

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FIGURE 267

GGGCCCAGATTGCGAAATTGAGGCNCCAAGGCGGCCGAGACGGACTGAAGCATTTCAAGGNTC
CGGNNGGTTCCCATGATTTGAACGGAGTCGTTTCCCCTAATGGGTGTTTTGACCCCCATCCCG
GTGCTNANGTGGTTTTTCCCCATNATCGGCCAACATGGGCATTTGAAATCCACAGGNGTCATT
GGGANTTNGCGGGCCCCTAATTTGTTTCAGACAGGCCGGGAGGGCAGTNTGGCCAGAAGGATT
CTTAAGTAACTGACCCAGCCCTTTGCCCCACCCTTGGGGTACCGAGACATGGGTAGGGATTA
GAGGCAAGAGTGGAGAGTCAGACCATCCAGGAACCACATNTTTGGACCTTCAGAAGGAGGACA
ACATGGCCTTTGGAAAGCCTGCCAAGTACTGGAAGTTGGACCCTGNTCAGGTNTATGCTAGCG
GGCCAANGCATGGGACACGGCTNTGCANGACGCCTNTGAGGAGTACAAGCACCGCATGCACA
ATNTNTGCTGTGACAAATNCCANTNGCANGTGGCATTGGCCCTGAATCTGATGCGNTACAACA
ACAGCACCAANTGGAATATGGTGACGCTCTGCTTCTTCTGCCTGCTNTACGGGAAGTACGTCA
GCGTTGGGGCCTTNGTGAAGACCTGGCTGCCCTTCATCCTTCTCCTGGGCATCATCAGCGGCC
GCCGTAA

FIGURE 268

GAATCTGTTTC CAAAAAAAAAAGCTTTAAGAAGTCTTTAGATTACAGNTAAGCATATTCTAA
ATACTATGTGATGAATTATTTCTCTTATGTTAAAAAAATATTAATTTGGACCCAANTATGAC
TGTGGGTATTCTGCCCAGGGAAGAAGAGCTAGGAGGTTTAAACCTTACCTTGGANTTGCTGCT
TTGTTTTCTATGCCTTCTTGACAGAAGGATTTATTTCACTTCCGAAATATTAGCCATAATGCCC

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FIGURE 269

CACTAGGAAAAATTGAAATNCTATTGGAAATTNTTTTGGCCACAAAGGTAAATAGGTNTACCA
GGGGAAACAGGCATCAAGAAAATTGCCCAATTTTTAAACAATAGGGTTATTTGAGTAGTTG
AGTTTAAGAAATGAAAACCACAAATTTTGGTGGAACTTAAACACCACAGTCTATTTGTGTGTA
ATTTCTCAGGNTTTATTATAGTTCATGATAAAATCAATTTTCCATGTCTANTTTGTTTTTCTT
CAACAAGTGATCTATCTTTTACAAAAGGGAATATTTTGCTGGAGAAATGCTCATTGTTTCCCT
TCTGTATGTCTTTGAGGGTAATGCTAAAAGCAAGCTCAAATTTCAAAATATGTTATTTTTAAA
ATATTTTATATAGGATTTGTTAAANTTATAGTTTTCAAGGATTGTCTTTTGTTTCTTTGGATT
CTGATTAAGTGATTTTTAATGTATTCCTTTAAAAATATTTATTGGCACATTGTATTTGTACAT
ATTGATGGGATAAAATTGATGCTTCTGTACATATATATTTGGCATAATCATCAAATTTGGGTA
TTTAGCTTATTCATCACCTCATTCTTTATCATTTCTTTATGGTGAGAACATTCAAAGTCTC
TCTTCCAGCTATTTTATAATATATTATAC

FIGURE 270

TTCGGAAGAAGCACCTCAGAGGGATTAAGCTCCTGAGAATGTTACCTGCANTATACCTGATGG
CGTGCCAATAGATATCACAGTGAAGTTGATGGTCTTCCCTTGNACATNTCAACATTNTTGAAC
CACTTAATCCTCTNTTGACAACACTAGTAGAACAGAATCCTGAAGATATGGGAGACCTATAACC
TAGATGTTGCTGAAGCTTTTCTGGATGTTGGTGAATATAATTCTGCACTTCCCCTCCTCAGTG
CTCTTGTTTGCTCTGAAAGATACAACCTTGCAGTAGTTTGGCTTCGTCATGCAGAATGTTTAA
AGGCCTTAGGCTATATGGAGCGAGCTGCTGAAAGCTATGGCAAGGTGGTTGATCTGGCCCCAN
TCCATTTGGATGCAAGGATTTCACTTTCTACCCTTCAGCAGCAGCTGGGCCAGCCTGAGAAAG
CTCTGGAAGCTCTGGAACCAATGTATGATCCAGATACTTTAGCACAGGATGCAAATGCTGCAC
AGCAGGAANTGAAGTTATTGCTTCATCGTTCTACTCTGTTGTTTTACAAGGCAAAATGTATG
GTTATGTGGATACCTTACTTACTATGTTAGCCATGCTTTTAAAGGTAGCAATGAATCGAGC

FIGURE 271

TGGTTTTTGCCCCATAAATTCCTCAGCTTGAGCAGTTTGTTAAGGAATGAGGTTACAGATTC
AGGAATTNTAGGNCCTCAACCTNTAGANTTTGTCCCAAATGTTCTCCGACATGCAGTAGATGG
GAGACAAGAGGAGATTCTGTGGTCATCGCTGCATNTGAAGACAGGCTTGGGGGGGCCATTGC
AGCTATAAACAGCATTTCAGCACAACTCGNTCCAATGTGATTTTCTACATTGTTACTCTCAA
CAATACAGCAGACCATNTCCGGTCCTGGNTCAACAGTGATTCCCTGAAAAGCATCAGATACAA
AATTGTCAATTTTGACCCTAAACTTTTGGAAGGAAAAGTAAAGGAGGATCCTGACCAGGGGGA
ATCCATGAAACCTTTAACCTTTGCAAGGTTCTACTTGCCAATTCTGGTTCCCAGCGCAAAGAA
GGCCATATACATGGATGATGATGTAATTGTGCAAGGTGATATTCTTGCCCTTTACAATACAGC
ACTGAAGCCAGGACATGCAGCTGCATTTTCAGAAGATTGTGATTCAGCCTCTACTAAAGTTGT
CATCCGTGGAGCAGGAAA

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FIGURE 272

CCGGAAACCATGAGGTAATGCCNCAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGC
CTTGGACATGATGCTGNATTACNTCTCTTTAAATGACACCCTTCCTTCGCCTGTTGGTGCTG
GCCCTTGGGGAGCTGGAGCCCAGCATGCTGGGGAGTGCGGTCAGCTCCACACAGTAGTCCCCA
CGTGGCCCACTCCCGGGCCAGGCTGCTTTCGCTGTCTTCAGTTCTGTCCAAGCCATCAGCTC
CTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGCAGCATCAGACGTAC
TCGTCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAGTG
CTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTCATGTAGTGAAGTCAAACGTGTT
ATTCAGAGATGTTTAATGCATATTTAACTTATTTAATGTATTTTCATCTCATGTTTTCTTATTG
TCACAAGAGTACAGTTAATGCTGCGTGCTGCTGAACTCTGTTGGGTGAACTGGTATTGCTGCT
GGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTCTGGTCATGTGGAGGG

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FIGURE 273

TGAAGTTGAATTGAATGATATGAGGNTTTTCTTTCCCAAGGTCNACCAGGACCAAGATTNTTT
TATAGTTATAAGCCTTGAAAGAAATTCTTGCAAGGTGTTGGACNCTTACTNAAGCAGAGAAGA
TGTCTTTTGAAACTCAGAAACGAACCTTGGTACAGAAAATCAGTATTTAAGGCCCAGAACTTA
TTGAAAGCGCAATGTACTTCTACCGTGCCACGGGGGATCCCACCNTCCTAGAACTCGGAAGAG
ATGCTGTGGAATCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAATCAAAGATC
TGCGAGACCACAAGCTGGACAACCGCATGGAGTCGTTCTTCCTGGCCGAGACTGTGAAATACC
TCTACCTCCTGTTTGACCCAACCAACTTCATCCACAACAATGGGTCCACCTTCGACGCGGTGA
TCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGGTACATCTTCAACACAGAAGCTCACC
CCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGTGGAGG
ACTTGATGAGGGAATTCTACTCTCTCAAACGGAGCAGGTCGAAATTTTCAGAAAAACACTGTTA
GTTCGGG

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FIGURE 274

TATGGGCATAGAAAACCCTGGAAAGNCCCATCCACCATTATATATAGAGTGATTGTCTNTGCT
TGNTGAGCTAACAGGGGTGTCAAGCTTCCATTTTGGTATCTACTTCTAAATACACTCAGACCA
GGAGAAATTTGGACTAATTTTCAAACCTACAGACACTTTCTAATCATGATGCATTTCAAAAGTG
GACTCGAATTAACTGAGTTGCAAAACATGACAGTGCCCCGAGGATGATAACATTAGCAATGACT
CCAATGATTTTACCGAAGTAGAAAATGGTCAGATAAATAGCAAGTTTATTTCTGATCGTGAAA
GTAGAAGAAGTCTCACAAACAGCCATTTGGAAAAAAGAAGTGTGATGAGTATATTCCAGGTA
CAACCTCCTTAGGCATGTCTGTTTTTAACCTAAGCAACGCCATTATGGGCAGTGGGATTTTGG
GACTCGCCTTTGCCCTGGCAAACACTGGAATCCTACTTTTTCTGGTACTTTTGACTTCAGTGA
CATTGCTGTCTATATATTCAATAAACCTCCTATTGATCTGTTCAAAAGAAACAGGCTGCATGG
TGTATGAAAAGCTGGGGGAACAAGTCTTTGGCACCACAGGGAAGTTCGTAATCTTTGGAGCCA
CCTCTCTACAGAACTGGAGCAATGCTGAGCTACCTCTTCATCGTAAAAAATGAACTACCT
CTGC

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FIGURE 275

TGGGACACGGGTTACCCCAAGNGCAGCGCTGGCAAGGCCTTCATGATNTCGGTGTGCTCTACG
TGACCAATTCCCACCTGGNTGGGGCAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTA
GAGTACACGNACGTGCCCTTCCACAACCAGTATTTCCACATCTCGATGCTGGATTACAACCCC
CGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTACAATGTCACCCTGTTT
CACGTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTGGGGG
GCCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCT
CTGTCACGCCCTTTCTCCCCGCCTTTTTGCTGGGCTTTTGTTCTCTGCCTATGTATTTCTGTC
TATTTTTTCAATTTCCCCTCTTCTCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCT
TTCTGCCTTTTTATGGATGTCTTTTTCTTTTTATGGCTCTGGTTCTCCAGTTCTTTCCGTCTC
TGCCTCTCTCTGTCTCTCTCTCTGTCTTCCACCCCTCCCTCCTTGCTCCC

FIGURE 276

CGAANGCGTGGGTGTGCATCCGGGTGTNTGAAGGCTGTGCCCCTTTTGTTTCTTGGCTAAAAT
CGGGGGANTNAGGCGGGCCGGCNCGGCGCGACACCGGGCTCCGGAACCACTGCACGACGGGGN
TGGACTGACCTGAAAAAATGTCTGGATTTCTAGAGGGCTTGAGATGCTCAGAATGCATTGAC
TGGGGGGAAAAGCGCAATACTATTGCTTCCATTGCTGCTGGTGTACTATTTTTTTACAGGCTGG
TGGATTATCATAGATGCAGCTGTTATTTATCCCACCATGAAAGATTTCAACCACTCATACCAT
GCCTGTGGTGTATAGCAACCATAGCCTTCCTAATGATTAATGCAGTATCGAATGGACAAGTC
CGAGGTGATAGTTACAGTGAAGGTTGTCTGGGTCAAACAGGTGCTCGCATTTGGCTTTTCGTT
GGTTTCATGTTGGCCTTTGGATCTCTGATTGCATCTATGTGGATTCTTTTTGGAGGTTATGTT
GCTAAAGAAAAAGACATAGTATACCCTGGAATTGCTGTATTTTTCCAGAATGCCTTCATCTTT
AAT

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FIGURE 277

AGTTTCCTTTAAATTGGGGTNGGGGTGTTAAGCNCTGAAAATATCTTTCNTGATTACTTTACC
ATGTGGACATATGGGATAAATACTGTATTTTCAGATTTACATAAAAAGTAGATTAGTAATGCNCA
GCTTTCAGAATAAAAACTGATAAAAAAGACCAAGCACTATCAACTTTGGACAGTAATTTCTTA
GGTGTTAAACAAGTTTTCTGAATACAATCTGGATGCAAAACGGCCTGATTGATGAATTCATA
ATTTTCTTCTGNANACTTTCATTTTATTAAATATTTTATTACTTGGTTAAACNCNAGAATTAT
CTATGTAAACTTCATGGGNTTTTTTGTGAAAGTTAGATGTTTCAGTAACTAATTTCCCAGTTA
TGGCCCAGAATTAAACATTTATGATCATATTTTCAGAAGTCAAAATNCAAACTGGATTATCAA
AACGGTTGGTGTGGTCNCTTTAACTGGACTATCAGTATGGTTGCCGTGGTCACTTTAANCGG
GATTATCAGTACGGTTGGTGTGGTCACTTTGGTTTATCATCAATACAGTTGGTGTGGTCACTT
TAACTGGATTACCNATATGGTTGGTGTGGTCGCTTTAAAGTTTGNTTTCATTTTTTTCTATT
TTTAATTNTTAC

FIGURE 278

TTGGTTTTTCTGTTCTGNGTTAGTTTGCTGACTTAAGAGGATACAGACTTGAGGTATAATTT
GTCTTAGTCAGTTTTGTGTTGCTATAACAGAATACCTGAGACTAGGTAATTTATAAAAATAAA
GTTTATTTGGCTCATGATTNTGGAGCTGGAAAGTCNAGATTGGGCAGCCCATATGATGAGGGT
TGCACACTTNTTCNATTTATGGCAGAAAGTGGAANGGAAGCAGGTGTGTCCAAANAGACATG
CAGGAGAGGTTGGAGTCANTGCTCTCTCAGGAANTAATTCATTCTNTAGAGAGTGAGAACTCA
CTTAACTNTTGCNAGAGGGCATTAAATCTATTCACCCATGAAACNAACACCCTNCAGTAGACTC
CACCATTTAACACTGCCATATTGGGAATCAAATTTCAACATGAGTTTTGGCANGGG

FIGURE 279

CCTTTGGAACTGGGATTAATGTATGCTCTAGATCCATTTATTAGAAATGCAAAAATACTACA
ATTTTTTGATGGATGAAAATACTCCTGTAACACAAACAGAGAACTGGAGGAACTGAAGAATAA
CTCACTCATATAGNTCTGCCTCATTCTGTGTGTGTGTGCATGTGTGTGTTANCAGAGGTATTT
TACTCAGAAAATAGGTTTCAAAGAACATTAATGACTTTCTTTTCCCTTTTANGTNTGNTTAAT
CAGTTAACTGNTATGGGAAAAGTTTTATAGAACTATATAACCTGAATGTTGGTCTCTTTGNA
CACATNTTTTNTATGACTGC

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FIGURE 280

TGTGGTCCTAATATCATAGATCACTTTANATGTGATTTGTTTCAGTTGTTGACACTTGCCTGC
ACGGACACCCACATCCTGGGCCTTTTAGTTACCCTCAACAGTGGGATGATGTGTGTGGCCATC
TTTCTTATNTTAANTGNGTCCTACACGGTCATCCTANGCTCCCTGAAGTTTTACAGCTTTAAA
NGGCGGCACAAAGCCCTNTNTACCTGCAGNTNCCACCTCACGGTGGTTGTANTGTTCTTTGTCCC

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FIGURE 281

TGGTTCCAGGTCACCATCCTTAGCNTCAAATTCATAAAATGGTTGCTTCTACCTCCAGCCTGA
TATCCTTGTGATGGGCAGGCAGAACCAGGGCTNTAAGGAAAGGAGCCAGCACCTGTATCAAGA
AGCCAAAGCCTTCCCTGAAATCTTTAGCAGACGTCTGCTTGTGACTATTTGGCTAGAACTTTG
TGACATGGCCACTCCNTGCTGCAAGGACATTTACAGTTTTTCAGTTGGGCCCATTGCCACCCT
GAGCAAAGGGTCNATAAGGAAGAAGACGGAGAGTGGACATGTTGGGCATTCACCTGCCAGCAC
TCCATCCAGACAGCCNCANAANTGGTGGGTAAACAGAGACAGCATACATTCACTTATCAACTG
TTTAGTAAATTCCTGGCATGGGCA

FIGURE 282

AGCCCAGATCCAGGAACCATTCCTATTTTCAGGATTTTGAATGCAAACTTACCTTNTTACTCT
AAAGATGAATGTCAGGGAGAGATTTATTCAACCCTGAGATTTTTCAGTCTCCTTCAGAGTCA
CAGAATAGATTAAAGGCCTGATGATACTCAAAGGCCTGGGAAAACCTGATGNCAAAGAATTTTCA
GTGCCCTGGCACCTCATTGCAGTGACTNTTGGGATCCTCTGNTTACTTCTTCTGATGATAGTC
NCAGTGTTGGTGACAAATATCTTTCAGTGNATTCNAGAAAAACATCAACGGCAGGAAATTTTA
AGAAACTGTAGTGAAAAGTACNTCATGCAAAATGNCNACTACTTAAAANAGCAGATTTTGACA
AATAAGACTTTAAAATATGACGTTNTCAAAAATAGCTTTCAGCAGAAAAAGGAACTGGATTCA
CGCCTTATACNAAAGAACAGATGTCATAGAGAAAATGAGATCATTTTTAAAGTTTTGCAAAAT
ACAGGCAAATT

FIGURE 283

AGGAATGACCTTCCTCAGGGGGCTGAGGATACCCACAGGCCTCCTTTCTCTCCAGCTCCAGG
GTTTGACTATGCACCTATTTAGGGGCTGCTTGCTCAAGGGAGAGAGGTACAGGAGGTGGTCTG
GGAAAAACAAAATTGATCTTCCTATCAATTGTATTTTTGTTTAGCGGAATCTATACACACCCA
TTTCTTTGGATATTATTTCCAGTTACTCCAGCTAATCCAAATAATGATATTTGCCCTCAGTTA
AGAACAGATTTTATTTTTAGGAACAGAAGTCTAGTAGCAGTTTTGCTTTTTATTAACGTTTTA
AGGAACATTTACCTTAGATATCATGATTCTTGGGCATTTGCAAAATGCAGTCAATATCAAACA
GCAATGGTTGCTTGTTTTATGATCGGTCAGAATTTGTCCCTTATATTAATTTTCAG

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FIGURE 284

GCCCCGAGTTTCTGTCGCAGGTTGCGAGGAAAGGCCCTAGGCTGGGTCTGGGTGCTTGGCGG
CGGCGGCTTCCTCCCCGCTNGTCCTCCCCGGGCCCAGAGGCACCTCGGCTTCAGTCATGCTGA
GCAGAGTATGGAAGCACCTGACTACGAAGTGCTATCCGTGCGAGAACAGCTATTCCACGAGAG
GATCCGCGAGTGTATTATATCAACACTTCTGTTTGCAACACTGTACATCCTCTGCCACATCTT
CCTGACCCGCTTCAAGAAGCCTGCTGAGTTACCCACAGTGGATGATGAAGATGCCACCGTCAA
CAAGATTGCGCTCGAGCTGTGCACCTTTACCCTGGCAATTGCCCTGGGTGCTGTCCTGCTCCT
GCCCTTCTCCATCATCAGCAATGAGGTGCTGCTCTCCCTGCCTCGGAACTACTACATCCAGTG
GCTCAACGGCTCCCTCATCCATGGCCTCTGGAACCTTGTTTTTCTCTTCTCCAAC

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FIGURE 285

ATTTAGATTTGNATCTCTTCCCATCAATCATGAATACATAAGGTAATATTTTATAGTTGGAAA
GCATTGCTTAATATATTGAATCAATAAAAAATATTGATTTTCATATATTTAATTTTTATAATCTT
TACAGATTACAATACTGTGATGAGACTGTTCTGTAACTTTTGATCCACACACAGAATTTCTT
GGTCCTCAGAAGAAAACAGAACAAGTCCAAAGAGACATTGGATTTTGGTGTCCAAGGCATCTT
AAGACTTCTGGGGGACAAGGATATAAGTTTCTGGGAATTGACCAGTGTGCGCCTCCATGCCCC
AACATGTATTTTAAAAGTGATGAGCTAGAGTTTGCAAAAAGTTTTATTGGAACAGTTTCAATA
TTTTGTCTTTGTGCAACTCTGTTACATTCCTTACTTTTTTAATTGATGTTAGAAGATTCAGA
TACCCAGAGAGACCAATTATATATTACTCTGTCTGTTACAGCATTGTATCTCTTATGTACTTC
ATTGGATTTTTGCTAGGCGATAGCACAGCCTGCAATAAGGCAGATGAGAAGCTAGAACTTGG

CGTTAANACGAGCCTGCCAGTAAATGTAGCCATCATGTTTCAGTAANGGCCCTTGCAAAACAGAT
TACCCCTTCACCTTTTCACTTAATTGTCTACCTATGAATCATTAAATGNTTTGGTTTGN'TTTTA
ATTCTGTGATAGGTAGGAAAGGATGGAACCTCCTTGGCAGACTAGTGTTANAAAGTTTTNGAAG
CAGGGTGAGTCTTGTACCTTTGNGGTCCTGTNTCACAGACACCTGTNTANTCCCTGACCCTTT
TAAATGGTAACTTTNTGCCTGTAGGAAATCTTCCCTTTGTGCTTAGGTCCTTTTTCNTCTGTGA
GCTTTAGATAAACNACCTAGTGTTTAAACTTTTTAATAAGGGATTCA'TTTTTTAANACATGAG
AATTCATTTCAAAN'TTTGGNTTTAGNTATTTANTTTANTCTACNTGGNTCTTTTTCAGACAG
ATGTTCTCTCCTGGATTGTAAAAGTCGAATTCAAAGGATTTTTTANTTTGNAATANACTTAACCT
TTCTCTTGTAAGNTGCCATNTGTGTANANACAGCTTTGANTGCCTGACAAGAGGAAAATGTTT
CCC

FIGURE 287

AACTGTCTTTAATGGCCCAGTTTTACCAGGGCTTGTTGTNTAAGGACATTAACCTGTGCTCCC
CTCAGGGATGGGTTTANTACTAGCTGTCAGAAAGCTATTGGGTATCCTAATGTGTTAATAGCT
GAAACTCAGCTGTAATTTCTCCTAAATACTTCAGCATTTTGCATTCTGTACANTGTGGTGCTT
TTTCNCCTTGTANTGTTCTAACTGTAAGCTCCTAGGGGGCAGCAATTTGGATAAATCTTTTG
GTAAGTAGTTNTCAATAAAATATCTTCCCTCCCCATACCCCTACCCGAAATNTTATANTGNTC
TTTACAAAACCTTTGGTCAAGAGTAGAAATATATCCAGGCAGATGTATATGCCATACAATAGCA
AGAACAGTAAAGCCCACTAATGATTTTGAGTTTTAAAAATAGAAGGCNATTAAAATGNACTC
AAAGTTACATTAAGAAAAGCTTTCACGGGGGTAATATTGAAACAGTCACAAAGGTTAAGAAAA
TACTGATAGCAGTTTTTGTCTATTTTAACATTGTAGTCATTTGTACTTTGAT

FIGURE 288

GGATTTTCGTAAGTAGTTTAGAGATAGTCACATTTTAAAAATTTAAGATCAAGCAAATGAAGC
TTATTTTTTANGTATTCATAGTATAAAAGACCTTCAGTAAATAGGTAATANTTTTGTTTTATTTC
TAGAAAACAGCTCCTTGAACACAGTGAGCTGGCTTTTCACACATTGCAGTTGTTAGTGTTTAC
TGCCCTTGCCATTTTAATTATGAGGNTAAAGATGTTTTTGACACCGCACATGTGTGTTATGGN
TTCCNTGATANGCTNTNGACAGCTNTTTGGCTGGNTTTTTTNGCANAGTTNGTTTTGANAAGGT
TATCTTTGGCATTTTTAACAGTGATGTCAATACAAGGTTATGCAAACCTCCGTAATCAATGGAG
CATAATAGGAGAATTTAATAATTTGCCTCAGGAAGAACTTTTACAGTGGATCAAATACAGTAC
CACATCAGATGCTGTNTTTGCAGGTGCCATGCCTACAATGGCAAGCATCAAGCTGTTTACACT
TNATCCCATTGTGAATNATCCACATTACGAAGATGCAGACTTGAGGGGTNGGACAAAAATAGT
TTATTTTACATATAGTNGAAAATNTGC

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FIGURE 289

TCCCTTAATTCCATAGACCCCGAAGGGGGTTTCCCGGGTTGGAATCCATTAAATCCGGGCCAG
GGCTTGNTCCCGTGGTTTAGGATTGGGGGTTANAAATAAAAANTCAGGTNTATTTNTTACCAG
TCAGTACNATTTTTAAAGAATGTACTTGGTATATAATATATGGACTTCAGGAACTTTATTGGG
GTGGGGGGTTAATTTTGCCTTACCCTGTTCACTTTCANATGATTAGGCTTTTGCACCTTAGAA
TGAGAACTTGTGACGTTAGTGTGTTCTTACTAGCTTTAATTTGTANGTAGCAATGAATTGTG
AATCTTAGTGCAGTGGGTTTTTTTTAAAAAACTCAAAAAGCTGGGAATTAAGTGGTTTTCAGTAA
TAATGNTATACCGAGGTGCTTGCATTGTATTTTATAATTTTGGNTACAAACCNAATTTATTTTT
AATGAGAACAGTNTTGGGTTTCANAGGTGTGATGCCAGAATGTATTTTCGTACTGTTAGGCCCT
TGGAACAGATATCGGTGCTTTTTTGAAAGATGAAAGAAATGCNATGGGTGCTNTTCANGCAAGG
TTGCAAACCTACCAAGAATGCATAATAGTNTCACTTTTCCCCAATAAANAGATGNGTGTGACT
AGTTTTGGACTTTTAACTTAATGGGGGTTGCATGTNTCCTANTGTTAATCATTGTCAGCTGC
AGTGACATGATCCACAGTNC

FIGURE 290

GACTTGGAAGAATTGGACCTAGTGGNTAGACCCAAGGNCCAAAGCCAANAATTCGTGGGGGGGC
CCAGGAANCAGGAGGTCNCATGGGATTCCAGACATAAGATCAGGTTTTTAACCCCCTTTGGCCC
AAATTTTGGCTGAAAATGTTGAATTATCAACTCTGAAATTAAAAAGAAAGTTTATATTTAAAC
ANTGCAATTTTCCTTAGAATTTCTGTATATATTAACATCATGAATGATAAATTCTCTTCAATG
TGCANGTCAGGTTTTTGNACTTGNATATCAAATCTATCTGTGTGTATGAAGTGTATGTTTATT
GAAATACNAGATATTTAAGAAGCTGATNTGGAAAGTTGGATTTTCATTCTAGTTCCTAATTCC
CAGAGGNTTTTTTTAAAGGAAGGGAATGTNTGTGGTACNCCAGTTGTCAGCTGGGTGGNTACTG
GATCATCTTTCTTTTATCAACNAGATNAACTATCAACTTCACCAGCATCATGAACCTTGNTGC
CGTAAAAAGGAGTTCACTACTTCTGTTCNCTTTGAGTCTNTTCAAATGGATTNTGTGTCCTCC
TNTGGAGTNTGNGCCATTTANTGNTTNTGACTNTTCCNCTAAGCCAGAGAATGATGATGGAGG
AAATTATGAAATGTTACNCGAAAATTTGTTTTTCGACCTGAACTGTTTGANGTCAC

FIGURE 291

AACCCATGGGGCCAAGTCAAAAGCCCNACAGGTTNTCCAGGCAAGGGCATGGGCATGGGGTTAG
GANCAGTGAACCTGGAAGTAATCCCAGCCCTGCNGTCATTAGTGTGTTACCTCAGGTAAAGGG
GGGGAACCCTACAGGACTGTTACAAGGATTAAATGAAGGAATTTAAGTGTGTGCATGTATNTG
GCATGTAGAAAATACAGTGTGGTGGGGAGAGAACAGATTNTAGAACCAGACTGCCTGAGTTCA
AATCCCAGTTNTGCTGCTTCCTGGCTGTGTGACCCTGGGCAAATCACTTAGCCTGTNTGGGNT
TCAGATTTCTCATCTGACAATGAAGATAATNAAATACCTATCTTTATGGTTGTAGTAAGGATT
AAATGAATTGAAATAAAGNTTTTAGATTAATACTTGATATGCTACATAGGTGTCAGCCATTGT
TAATCANTGNTGTCATTATAGNTATTATCAACATGATTATTTGCTNTAANAGGAACTCAGGCA
TTTGCAGGGTGTGGGGAACCCTGAGCTGGGTNTCCCTGTTGGGTGTTGTGTCCCATNATAC
CCTTAGGNCAACCCAGGTGAGGTGAGGGGGATGTGCCCTTNTTTTCTGGNCCAGGTNTGTAA
GGCCANCAGCTTTGCCTCATACGTGNGCAGCAGGTNGTTATGG

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FIGURE 292

CTAACCCCAGTTGAATTTTTGGAGCTTGTTGGATTTGCCCATTTGCCAGCCCAANTATGTTGGG
GAAAAGTNTNTGAGTGTCATTTTGCNTGTTGAAGCTCTGGNTAATGTGATTATTGATCTGAGA
ATGAATCTTTNTTAGNTATTCCAACTTAGTTATTTTGCAGTTTGGTANTTTTTTCCTCAT
TGGAACCCCCAAAATCCGATTGCTTTTGCCTGTTTTTTTATTGCTGATAACTGATCCTTT
CCTTGACATTTATTTTAGTGGACTTTCAGTAACTGAAAGATGGAAACCTTTTTGNACCGTGG
AAGAATTTGCAGAAGACTTTCAGTCGTTTTTGCTGGAATGATTGAGCTTACATTTTTTATTCT
TTCCGCATTCAAACCTAGAGACACTCACCTNTGGTATTTTGTAANACCTGGNTTTTCCATTTT
TGGAATTTTNTGGATGATTTGTCATANTATTTTCTTTTAACTCTTTGGGGATTCCATACCNA
ATTAAATGACTGCCATAAAGTATATTTTACTCACAGGACAGATTACNATAGCCNTGATAGAAT
CATGGCATCCAAANGGATGCGCCATTTTGNTTGATTTTCTAGAGCAGTTGGTGTNTTTTAGTNT
TNTTGCAACAGCGATTTTGGGAGCAGTTTNCCG

FIGURE 293

TCCAGGATTTTTCTCCCTGGTNTAAGGTCCTGGTTCACACCCANAGGAACCAGTTTGGTCCTG
GGCAAGCCACTGCCTATAGGATAAGGNAAGATCAAATAAATCATNTCAGGGAGAACAAAGGNCC
AGCCTTCCTCCTCTATTCACTCAAACACACCACCCAAGCACCCANTTTGGCCAGACTCTGTGA
TGGTCCCTGCCCTCAAAGGACTGTTTCATGGTCTAGAGATGAAAGAGCCCAGTCAACAGTTATA
CTGTGTGGTGGCGGCGGGAGGGTAATCACAGGGTATTTATGGGTACAAAAAGGAGGCACCCTG
ACCTCACCAGAAATAGCTACCCTGTGCCATAGGCTNTAGGCAGACTTTACTGACATTGAANAN
CCTTTTGCAGNCAATTANCAAAAAGACTACATGTGTAAATGTGACAGAACAGGGATTCAGAGC
CTGAATGTTTANGCCTGCTTTATCCTCATTTTGTCTGCTGAGGAGGAGGTGGGAAAATAA
GTNTAGAAGCCATNTGAGTNTGGGTGGGAGCCACCTNTATATTTGTCATAAGTCTCTGATGGT
CCTTTGGTTTCTAGCTATANCTGTGTCCACTAGTGC

FIGURE 294

TTAAGGCCTTTTAAAATGGTGGAAATTTTTGGNACAATTATNCGGAAATTTTAAATTTTAAAG
GAATTTTGGAAAGTAGTTTAAAGATAGCCCNTTTTNAAAATTNTAAGATCAAGCAAATNAAGC
TTATTTTAAAGGATTCAAAGNATAAAAGCCTTCAGTAAATAGGTAAAATTTTGGTTTATTNTA
GAAAACAGNTCCTTGACACAGTGAGTGGCTTTTCACACATTGCAGTTGTTAATGGTTTACTGC
CCTTGCCATTTTAAATTATGAGGCTAAAGATGTTTTTGACACCGCACATGTGTGTTATGGCTT
CCTTGATATGCTCTCGACAGCTCTTTGGCTGGCTTTTTCGCAGAGTTCGTTTTGAGAAGGTTA
TCTTTGGCATTTTAACAGTGATGTCAATACAAGGTTATGCAAACCTCCGTAATCAATGGAGCA
TAATAGGAGAATTTAANAATTTGCCTCAGGAAAACTTTTNCNAGTGGATCAAATNCAGTACC
ACATCAGATGCTGTCTTTGCAGGTGCCATGCCTACAATGGCAAGCATCAAGCTGTNTACACTT
CATCCCATTGTGAATCATCCACATTACGAAGATGCAGACTTNAGGCCTGGTTGCAGTANGCTT
GAAATCTGGGATGTGGAAGACCCTTCCAATGCAGNTAACCTTCCTTANGTAGCGTCCTGNTC
GAAGACGCCAG

FIGURE 295

TCCAAAAAAAAATAATGGAAACTGGAAAGAGAAAAATTGTTTCAAAACTATAGCACACCT
GTTGTTAGATTCTTGTCTTGCCTAANGTTTTTCAATTTTANTATTTTCTACAGTTTGGACCGA
ATTCTAATTTTTNTTGGACTACAAGTNTTCAAATAATGNTTTCANTTTTTTCTTCTTTTTTCC
ATTTTTTTCCAATTTGGAGTCNCTGAAACTAANCTGTGCTTTCATAAAGCCCTGCAAACTGA
ATCTAGACAACTTCAGAAGAAAAATNACAGCAACCTATTTACATACATAAGCCACTTTCANAC
CTGCCTACCGATGTATGGACTTCAGAGTAATGTGGNTTATAGCAATTTTCCAGGATTGNTCTT
TTGTTTGNTGNTGTTCTCCCTTCCTCCCCCTATTTTGTCTTTATGGGACATGACACTTCACAA
CCTTNTAAAAATGAGTTTTTCTAATAACTCAGGACCTACTNGTNTAGAAATNAACCATCCTAG

FIGURE 296

TTTTTTTTTCCCCTTTGGGCCAGGTCGGGGTATGATAGGTCGGGGAANAGGGGGCTTTGGAGG
CCGAGGCCGAGGCCGTGGACGAGGGAAAGGTGCCCTTGCTNGCCCTGTATTGACCAAGGAGCA
GCTGGACAACCAATTGGATGCATATATGTCGAAAACNAAAGGACACCTGGATGCTGAGTTGGA
TGCCTACATGGNGCAGACAGATNCCGAAACCAATGATTNAAGCCTGCCCATCCTNCCATGANA
GACTNTTGT TAGTCAACACATCTGTAAATAACCTTGAGATNACAGATGAGAAGAAATCTGATT
GATGCTGGATGGACCTATCACAATAGGCTGTGGACTTACTTGCCACCAGNTTGTGCATTTAGT
GTGTTCCCTTTTACTTTTTGATACTGTGTTGTATGAAACCCCTTTGTCCTTTGATTTGGTTTTT
TGNTTTTGT TTTT TANGGGGGANGGGGGGTTTCCCCTCCTTTGCCCAGACTTNTCTTTGAAC
ACAAATGCATTAGCCTTGTGGNTAGAACACCCTNTTCCTACCTCTGTNTCCCC

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FIGURE 297

GGTAATGGAAAACCCGCAATTACATTTGAACCAACCTAATAGATNTAAGGAAAAGCGCTTTCC
ATTCGTAGCATCAGTCTGGCCACATCCCTTGTGAGCCACTGCGCCCGGCTTGTGGCCGTATT
TTTGGAATGCATTTGGAGCTTGGGTGAGTAGTTTTTGTTCATGTGATGTCACCAACATGTT
GCCTATACAGATTGAATATCCCTTATCCAAAATGCTTGCAACCAGAAGTGTTCGGATTTTTG
GAATTTTTTTTGGATTTTGAATATCTTCATGTAAATAATGAGATTTGTTGGGGATCAGACTC
AAGTCTAAACATGAAATTCGTTTATGTTTCATATATACTTTATACACATACCTTAAAGGCAGT
TTTATACAGTATTTTCAATGGTGTGCATGAAACAAAGTTTGTGTTTCATTGATCCATCAGAAAG
CAAAGATGTCACTGTCTCAGCCACACGTGGACAATCTGGTTGGTTAGCGTCCCCATCGTT

FIGURE 298

GGCCCCGCGTGCCGACATGGGAAAAGTCTCTTTCTCATTTGCTTTGCATTCAAGCAAAGAAGA
TGCTTATGATGGAGTCACATCTGAAAACATGAGGAATGGACTGGTTAATAGTGAAGTCCATAA
TGAAGATGGAAGAAATGGAGATGTCTCTCAGTTTTCCATATGTGGAATTTACAGGAAGAGATAG
TGTCACCTGCCCTACTTGTCAGGGAACAGGAAGAATTCCTAGGGGGCAAGAAAACCAACTGGG
GCATTGATTCCATATAGTGATCAGAGATTAAGGCCAAGAAGAACAAAGCTGTATGTGATGGCT
TCTGTGTTTGTCTGTCTACTCCTTTCTGGATTGGCTGTGTTTTTCCTTTTCCCTCGCTCTATC
GACGTGAAATACATTGGTGTAATAATCAGCCTATGTCAAGTTATGATGTTTCAAGCGTACAATT
TATTTAAATATCACAAACACACTAAATATAACAAACAATAACTATTACTCTGTCTGAAGTTGAA
ACCGAACCCCT

FIGURE 299

GAGCGGAGCCGGCGGAGCCTCTGGAATCACCCGGGTCGCTGTTTCCTGAGCAGCTGCAGAGCAT
CGAGGGCTGGAGAGGAGCACATACTGTCCATGGAGCTGGTGGTCAAGGTGGACAGGGGCGGTG
GTGATGGCGCAGTTTGACACTGAATACCAGCGCCTAGAGGCNTCCTATAGTGATTACCCCCA
GGGAGGAGGACCTGTTGGTGCACGTCGCCGAGGGGAGCAAGTCACCTTGGCACCATATTGAAA
ACCTTGACCTCTTCTTCTCTCGAGTTTATAATCTGCACCAGAAGAATGGCTTCACATGTATGC
TCATCGGGGAGATCTTTGAGCTCATGCAGTTCCTCTTTGTGGTTGCCTTCACTACCTTCCTGG
TCAGCTGCGTGGACTATGACATCCTATTTGCCAACAAGATGGTGAACCACAGTCTTCACCCTA
CTGAACCCGTCAAGGTCACTCTGCCAGACGCCTTTTTTGCC

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FIGURE 300

TATGGAACAGCCTCCTTTTGACANCAGTTACGGGCTGGTGGTGGCAGGGTCTGTTCTGGTCCT
GGGAGCCATCATCGGTGACTGGGTGGACAAGAATGGTAGACTTAAAGTGGCCCAGACCTCGCT
GGTGGNACAGAATGTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAA
ACATGAGNTTCTGACCATGNACCATGGANGGGTTCTCACTTCCTGNTANATCCTGATCATCAC
TATTGCAAATATTGCAAATTTGGCCAGTACTGNTACTGCAATCACAATCCAAAGGGATTGGAT
TGTTGTTGTTGCAGGAGAAGACAGAAGCNAACTAGCAAATATGAATGCCNCAATACGAAGGAT
TGACCAGTTAACCAACATTTTAGCCCCCATGGCTGTTGGCCAGATTATGACATTTGGCTCCCC
AGTCATCGGCTGTGGNTTTTATTTCTGGG

FIGURE 301

ACCGCCTGACCGTGCTGGCTGGTGCAATGCTTGCCTTGGGACTAATGACATGCTTGTCAGTTT
TGTTTGGCTATGCCACCACAGTCATCCCCAGGGTCTATACATACTATGTTTCAACTGTATTAT
TTGCCATTTTTGGCATTAGAATGCTTCGGGAAGGCTTAAAGATGAGCCCTGATGAGGGTCAAG
AGGAACTGGAAGAAGTTCAAGCTGAATTAAAGAAGAAAGATGAAGAATTTCAACGAACCAAAC
TTTTAAATGGACCGGGAGATGTTGAAACGGGTACAAGCATAACAGTACCTCAGAAAAAGTGGT
TGCATTTTATTTACCCATTTTTGTTCAAGCTCTTACATTAAACATTCTTAGCAGAATGGGGTG
ATCGCTCTCAACTAACTACAATTGTATTGGCAGCTAGAGAGGACCCCTATGGTGTAGCCGTGG
GTGGAAGTGTGGGCGAACCCCTTGC

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FIGURE 302

TCGAACCCANGGGGNCCGCCGAACGCGTGGGACCATATAGAGAAATAGCATGAATATTTTTAT
TAGGAGATGTTTTCAAAGACTGTATTCCAATGGTTAAAGGAAAGTCCAAAACCTCTTTAAGGAA
CACTGCAAGTTGAGCCTCTGCTGTTTTAATAGGTAGGTGACCTTGCCTGAGTCAGTCTTTTTG
AATTTCAATTTTCTAATCTTTAAAATGAGGTTTTTGGTGATCCCTCAGTTTCCTTTCAGCTCT
GGAATTTGGTGGGTAAGTTACCTTGAATGTGTATCTTTTCTTGTTAAAATTTTAAAAACAAT
ATAGAAGGAAACAAATCCTTTTTACTCCTATTTTTTTAGAAATAACCCCTAAACCTGGTAATAT
TTTGACGTGTTTTTTTCAAACCTGTCTGTGCATTTTTTTAAAGGAGCTTCTGTTCGTATATAGTT
ATGCCCTGCTTTTGTGTGCATGTTAAGCATTTGGTATGTTATTTTAAAGTGGAATGCCTTGAA
GAATGAATCAGTCAGACCTACTGTTAACATTTTGATGTATTTTCACTGACTTACAATTTTTT
GGTATTTGATATTATGTATAATTATATCCTGCATTTACTTAGCATATTAAGGATTTTTTTATA
TGTAATTTTAAAGTGGA

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.5	20	55
Gender	0.5	0.5	0	1
Marital Status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	3500	1500	1000	6000
Health	0.5	0.5	0	1
Smoking	0.2	0.4	0	1
Alcohol	0.1	0.3	0	1
Exercise	0.3	0.5	0	1
Stress	0.4	0.5	0	1
Sleep	0.5	0.5	0	1
Diet	0.5	0.5	0	1
Work	0.5	0.5	0	1
Family	0.5	0.5	0	1
Friends	0.5	0.5	0	1
Hobbies	0.5	0.5	0	1
Travel	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Listening	0.5	0.5	0	1
Watching	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Thinking	0.5	0.5	0	1
Feeling	0.5	0.5	0	1
Acting	0.5	0.5	0	1
Speaking	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Drawing	0.5	0.5	0	1
Dancing	0.5	0.5	0	1
Singing	0.5	0.5	0	1
Playing	0.5	0.5	0	1
Working	0.5	0.5	0	1
Studying	0.5	0.5	0	1
Resting	0.5	0.5	0	1
Traveling	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Listening	0.5	0.5	0	1
Watching	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Thinking	0.5	0.5	0	1
Feeling	0.5	0.5	0	1
Acting	0.5	0.5	0	1
Speaking	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Drawing	0.5	0.5	0	1
Dancing	0.5	0.5	0	1
Singing	0.5	0.5	0	1
Playing	0.5	0.5	0	1
Working	0.5	0.5	0	1
Studying	0.5	0.5	0	1
Resting	0.5	0.5	0	1
Traveling	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Listening	0.5	0.5	0	1
Watching	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Thinking	0.5	0.5	0	1
Feeling	0.5	0.5	0	1
Acting	0.5	0.5	0	1
Speaking	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Drawing	0.5	0.5	0	1
Dancing	0.5	0.5	0	1
Singing	0.5	0.5	0	1
Playing	0.5	0.5	0	1
Working	0.5	0.5	0	1
Studying	0.5	0.5	0	1
Resting	0.5	0.5	0	1
Traveling	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Listening	0.5	0.5	0	1
Watching	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Thinking	0.5	0.5	0	1
Feeling	0.5	0.5	0	1
Acting	0.5	0.5	0	1
Speaking	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Drawing	0.5	0.5	0	1
Dancing	0.5	0.5	0	1</

FIGURE 304

ATGAAATCCTGCTTTCTTTTCCTCAGAACTACTATATTCAGTGGCTAAATGGCTCCCTGATTC
ATGGTTGTGGAATCTGGNTTCCCTTTTTTCCAACCTTTGGTTAATTGGAATTGATGCCCTTTG
CCTTTTTCTTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAAAAGGGAATCCGAGCCCGCATTT
TAGAGACTTTGGTCATGCTTCTTCTTGCGTACTCATTCTTGGGATAGTGTGGGTAGCTT
CAGCACTCATTGACAACGATGCCGCAAGCATGGAATCTTTATATGATCTCTGGGAGTTCTATC
TACCCTATTTATATTCCTGTATATCATTGATGGGATGTTTGTTACTTCTCTTGTGTACACCAG
TTGGCCTTTCTCGTATGTTACAGTGATGGGTCAGTTGCTAGTGAAGCC

FIGURE 305

ATAGTATTAAGTCNATTGNGCAAGTGNAGCCTTAGAAGATTTGGAGTGTTTTNACTCTTTTT
CNTGGTGGCTTAGAATTTTCTCCAAGAAAAGTTAAGAAAGGTGTGAAGATTTCTTACAAGGN
CCGTGTACATGACACTGTTAATGATTGCATTTGGCTTGCTGTGGGGGCATCTCTTGCGGATCA
AACCCACGCAGAGCGTCTTCATTTCCACGTGTCTGTCTTGTCAAGCACACCCCTCGTGTCCA
GGTTCCTCATGGGCAGTGCTCGGGGTGACAAAGAAGGCGACATTGACTACAGCACCGTGCTCC
TCGGCATGCTGGTACGCAGGACGTGCAGCTCGGGCTCTTCATGGCCGTCATGCCGACTCTCAT
ACAGGCGGGCGCCAGTGCATCTTCTAGCATTGTCGTGGAAGTTCTCCGAATCCTGGTTTTGAT
TGGTCAGATTCTTTTTTCACTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCT
CATTGGACCCTATTATCGGAAGCTGCACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTT
GGGAATATCTGCCTTTATCTTCTTAATGTTAAC

FIGURE 306

AACCTATATAAAATAGTTTTTAGCAGTTTATAGCTGTGACCATCAAGTCAGATAATTTGGGAT
GTTACACAGAGAGCTCTGGGTGATTATGACAGTGACCACCCACATCTCTTATTTGTTNTGCTTC
ATTTCTCTACTAGGGAGAGGAGGTCATATAATATATGGTATTTTTATGTTATTTTAGATAAAAT
CCATATCAACACAGCACAGGAGAACNAATTATACCCCTGGTAGATTTTGGGGTATAAACGTC
ATGAAATGTTTCTCAGAAAGTGAGAAATATTTCTTGATTGTATCTTTAAAATTAATGCAAAAT
TGTTATGTTACTCCATAATTTATTTGTGTGCATTACTGTAAGGTTTCATGTGTATTCATATTAA
ATTTTTTCTTTTAAAAATTGGGTTCAATGAATTATCTAGGATGATTGCATTGTTTGTGGCATC
AAGTGTTGTTTCTCCCTTTCCATACCAAGCATATCCTGCTTTTGGTACAGG

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FIGURE 307

TTACTTGTGAGTATCATCNTGTCCTTTAATCCTGTACCCTAAAATAAGNAATACATTTTTTGAC
ANAGGCTTAATGTTTTAACAAAAGAGTGTGGACATTTTTATTTTAAAATTTAGGCAAAAGTCA
CTATCAAATGGTTGCTTATTTGTCTCACACANCCATATAGTTTTTCCTGGANGGTTTTGTTTT
GTTGTTGTTGAAAAGACTTTGNTTACAGNTANATGNAACCTTTTTATAGAAAAAAAAAATTGT
TGAAAGGTCCAGTTCTCAGTACCATGTGAGTTAATGATACTACAATAAGTTCTTTTTAAAAA
GTGATTAATGTATTTTATAAATTACCTTTTCACATATGCAAAATCTGTTTCTACTACAATGTT
ATTTTTACTAATGCCTTATTGTTGCACTCTTTTTGAAATATCCTGCAGTGAATATATGAATCA
ATTTGGGCTTAAAACTGAAAGCCAGTTGGCTGAAAGGTTTGAAATACGTACCCC

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TTCTTTCTTTTCCCCATNTCATTCAATTCAGGCTCCTTTCGCANAAGTGAGGTATTTAGATAAT
CAAAACCCACACAAGACCTCAACAGCAAATACAGATGAAATGTAATTATTATTTCAATTAAA
AAGGGAATAATATTTGTAGGCCATTGTNACCAGTATTCTCTCGTTTTAACTAGTTTGTCTGCA
TTTAAATTAAAGTGCTGCTCTTCAGCTTTTGTGTACAGCTATAAGTGCACATTGGAATTTATAT
GTATATATATATAGAGAGAGAGAGAGAGAGAGAGAAAATGACTGCTGGTTCAGTGTGTGTCCCTC
AGATCATACCACTACGAGTGCCTCAGCCTGGAAAAGCTAACCATGAAATTGATAACAATACGC
TTTTGGAAATGAAATCAGGTAAGAATCACATATGTTTGAAATTGTTTAAAATAACATTGTCAT
ATTTCTTGTTGTTATCTGGTTGCTGGTTTATCTCTTTG

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FIGURE 309

GTGGCCCGTCTGGCTAGTCCTGTNTAAGCGCGCCCATTTTCGAGCCCAAGTTTCCAGCTCGGGT
TTCCGGGGCTCAGAATTTTCCAGGAGTGGGTTCCTTGGGCAGTGGCTGTGGAACAGGAATGGCGC
AGCTANAGGGTTACTGTTTTCTCGCCGCCNTTGAGCTGTACCTTTTTAGTGTCCTGCCTCCTCT
TCTCCGCCTTCAGCCGGGCGCTGCGAGAGCCCTACATGGACGAGATCTTCCACCTGCCTCAGG
CGCAGCGCTACTGTGAGGGCCATTTCTCCCTTTCCCAGTGGGATCCCATGATTACTACATTAC
CTGGCTTGTACCTGGTGTGAGTTGGAGTGGTCAAACCTGCCATTTGGATCTTTGGATGGTCTG
AACATGTTGTCTGCTCCATTGGGATGCTCAGATTTGTTAATCTTCTCTTCAGTGTTGGCAACT
TCTATTTACTATATTTGCTTTTCCACAA

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FIGURE 310

CGCNTCGGCCCATGNACGCCTTGTGCGGTTCCGGGGAGTCGGCTCCAAGTCTGGGACTCCAAC
CTGTCTGTGCACACAGAAAACCCGGACCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGG
GTGCCCTGCATCTACCTGTGGGTGCGCCCTGCCCTGCTACTTGCTCTACCTGCGGCACCATTGT
CGTGGTACATCATCCTNTCCACCTGTCCAAGCTCAANAATGGTCCTGGGTGTCCTGCTGTGG
TGCGTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCTGCC
CCTGTTTTCTTTGTCACCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATA
CAGTATGAGCGGCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTCTGGTTCCTGTGT
GTGGTCTGCGCCATCGTCCCATTCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATC
TCAGACCCCTTCCGCCTCAC

FIGURE 311

CCATCAGGAAGGTGAAAGAGGTCTTTGGGACAGGGGCCATGAGACATGTGGTCATCCTCTTCA
CCCACAAAGAGGACTTAGGGGGGCCAGGCCCTGGATGACTATGTAGCAAACACGGACAACCTGCA
GCCTGAAAGACCTGGTGCGGGAGTGTGAGAGAAGGTACTGTGCCTTCAACAACCTGGGGCTCTG
TGGAGGAGCAGAGGCAGCAGCAGGCAGAGCTCCTGGCTGTGATTGAGAGGCTGGGGAGGGAGC
GAGAGGGCTCCTTCCACAGCAATGACCTCTTCTTGGATGCCCAGCTGCTCCAAAGAACTGGAG
CTGGGGCCTGCCAGGAAGACTACAGGCAGTACCAGGCCAAAGTGGAATGGCAGGTGGAGAAGC
ACAAGCAAGAGCTGAGGGAGAACGAGAGTAACTGGGCATACAAGGCGCTCCTCAGAGTCAAAC
ACTTGATGCTTTTGCATTATGAGATTTTGTGTTTTCTATTGTTGTGCAGCATACTTTTTT

FIGURE 312

TCTTTGTTCTCACAAGTTATCTTTACATTGGAATGACCCTGAATTAGGAAGTTAAAGTGA
TGGTTGGATTTGGATACTGCTNTAAAAGTTAGAAAATTAGGTCATTTGACATTTNTGCTCCGT
GTTTTGCCATGTTTGGTTCCTACATACTTTTGCAAAGATCAAGGAAGACCTTTGAGGCATCTC
TTTATCTCTTATTTCTATTACTATCACCCCAATTCAAGTCATCATCATTACCCTGGACTTCTG
GGATAGCTTCCCCTGTTCCCCTCATCTACTCTTGCTCACTGCCTTCCCCCAAACCCCCTA
AAATTCATTCTCCAGATAGTGAAGTAGAGTGAATCGACTATATCTTCTCTTTTCCTGCTCTGGA
TATAATTTATATCTTTTCCTGCTCTGGATATAATTTATATCCTTCATTCTCCATTTCTGTGCC
CCTGTGTGCCAACTGCTATTGTCTGCATTAGATGGACTTCCTTATCTTCTGGCTTCTATTGAA
TTTGGTGAAGTGGGGAGGGTCAAGTAGGAGATCAGTGTGTGGGAGAAGAAAGAAGTTTGAGTA
TTTATCACCTAGGAAGGGGGACTTCCAGGACACTGTTTGGCAGGGATGCTGGGCCTCTACTGG
AGGCCTAGTTCCGACTGTGTTGCCC

FIGURE 313

TTTTTTTTTTTTTTTTTTGGATTAATGAGGAAATCATTCTGTGGCTCTAGTCATAATTTATG
CTTAATAACATTGATAGTAGCCCTTTGCGCTATAACTCTACCTAAAGACTCACATCATTTGGC
AGAGAGAGAGTCGTTGAAGTCCCAGGAATTCAGGACTGGGCAGGTTAAGACCTCAGACAAGGT
AGTAGAGGTAGACTTGTGGACAAGGCTCGGGTCCCANCCGGACGNGTGGG

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FIGURE 314

ATTTGGGTTTTTTTTTCCAAAAATTGCTGAAATATTGTTTTGCCATTTTAAAAAGTCTCAG
GTTATTACCACTCTGCCATTAAATATTTGTATGCCTGCATTTTAAAAATTCTGTGCATGTAC
TTTATGGAGTACATTCTATTTTGTTCAGATACCCCGGACGCGTGGG

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FIGURE 315

CGGACGCGTGGGGAAACCTTGCCTTCAAGGGTTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
GTTTGGGTTTGTGTTTGTGTTTGGTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
AGTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGTCATTCTCCTG
CCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGTCCACTACCACGCCTGGATAATTTTTTGTA
TTTTCAGTANAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCATGA
TCCCGCCTGCCTCGGCCTCCCAAAGTGTTGGGATTACAGNGCGTGAGCCACCGNGCCGGGCAC
CTTCAAGGTTTTGTAAATTTTGGATAATGCTACAATCCGTTGCTGCAAAGAACTCGAAAATGC
ACACGCCAACATAGGAGTTCTTTTTATGCCCCCAAACATTAAGTNTTTCATCCAACCCCTCAA
TCGGGGCATAATAAAAGCATTCAAGGCACACTACNACAAGGGAGCTTTATATGAAGGCCTGTG
AGGCTCTCAGGACCAACAAGGAAACCACCATGCTGGACTATTGGAAGTCGGTCACTACATGCA
ACGTTATTGATTATGTCAGTACAGCCTGGGAGAGCATTGGTCAGGCTACTACCAATAACTGTT
GGGAAAATGTTTGGCCAGACTGCGTGGAGAATTTTGAAGGGTTTGAAGGTGTTACAGAAAATA
TAAAGAACACTGTCAGAGACATAATGCATATGGCACAGCAGGTAAGTGGAGAGGGCTTTGATG
ACGTGAAGGAAGGAGATGTGGAGTACATTTTGGCAGAGAAGGCAGTGGAAACCAACCAACGAAG
ACCTGGATGAGATGGCAAAACAAGGCATTGGAGTTGATGGCCATGAAAGTCGGCCCAAGACTT
CCAGAATTGTCCCTCTCACAGCGCCC

FIGURE 316

AAATTCTACTTCCTGGATTTTGGGAAGGCCAAAACATTTTTTCCCATGGGATACATCCCCATG
TTTNTGGCACAATCCTTCTTTGAAAATAATATGGAAGCTTAGATATATTTAGNCATTACGTTCN
TCTGGNTGNATGACATCATTCAAGAGCTTTTCAAAGCATTTGTTCAGATCTTCAGTACTGGCC
AGTTTTTCATACAGTCTCGGGGTTTTTAAACTTTGAAATCAAGGACACGACGTCTCCAGTCTAC
CTCCGAGAGATTAGTTGAAACNCAGAATATAGCGCCATCATTTCGTGAAGGGGTTTCTTTTGCG
GGACAGAGGATCAGATGTTGAGAGTTTGGACAAACTCATGAAAACCAAAAATATACCTGAAGC
TCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTTTTCTGAAAGCTCAAGCACTCACAC
AAAAAACCAATGATTCCTAAGGCGAACCCGTCTGATTCTCTTCGTTCTGCTGCTATTCGGCA
TTTATGGACTTCTAAAAAACCCATTTTTATCTGTCCGCTTCCGGACAACAACAGGGCTTGATT
CTGCAGTAGATCCTGTCCAGATGAAAAATGTCACCTTTGAACATGTTAAAGGGGTGGAGGAAG
CTAAACAAGAATTACAGGAAGTTGTTGAATTCTTGAAAAATCC

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FIGURE 317

CGCTTGGGCAGGTTGGGGTTGAACTNNTTCACCCCTTGCGGTNTGTACTGCNTCCCAANTGAG
CAGCCAGGAGAAGGCTAGAGCCTGTGCCTTTCAGCTAGATAGCTGGAGGAACTGGTCCTCCCT
CCTTAGGCTGTGCTGGCCTGAGCTGGGAGCCTGAGAGCTGGGGCAGTTGTCTCTAAAGTGGCT
TCTGGGATTCTGGTAAGAGCGTTACATCCTTACTATTCAAAGTGCCATCCACAGACCTGCTGA
TGGGCAGCATGAGCATCACCTGGGAGCTTGCTGCGCTGTAGAATCTTGAGGGGTCTCCATCCA
GATCAGCTGAATCAGAGTTTGCATTGTTAACAAGATTCTGCTTCTCAGAAGATGCACTATTAT
AGATACTCTAACGCCAAGGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATC
TTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAGGGTGTG
CTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCC

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FIGURE 318

NTGCAGTCAACGCAGCTTCCCGGGTTCAGCCTGGGAANATGCGCGAATCGGNAACCCAGAGC
CCGGTGGTTAGACCGGGGTCCGCCGCTTCCCCACAGCCCNTTTCCTAATCGTTCAGACGGAG
CCTGGTCGACTTCGCCGGAGACTGCCAGATCTCGTTCCTCTTCCCTGTGTCATCTTCTTAATT
ATAAATAATGGGGGATGAAGATAAAAGAATTACATATGAAGATTCAGAACCATCCACAGGAAT
GAATTACACGCCCTCCATGCATCAAGAAGCACAGGAGGAGACAGTTATGAAGCTCAAAGGTAT
AGATGCAAATGAACCAACAGAAGGAAGTATTCTTTTGAAAAGCAGTGAAAAAAGCTACAAGA
AACACCAACTGAAGCAAATCACGTACAAAGACTGAGACAAATGCTGGCTTGCCCTCCACATGG
TTTACTGGACAGGGTCATAACAAATGTTACCATCATTGTTCTTCTGTGGGCTGTAGTTTGGTC
AATTACTGGCAGTGAATGTCTTCCTGGAGGAAACCTATTTGGAATTATAATCCTATTCTATTG
TGC

FIGURE 319

TCAGCGGGTAAGAAAATTCTACTTCCNGGGATTTTTGTAAAAGGCAAAAACCTTTTNTTCCCC
ATTGGCATAACATCCCAANGTTTNTGCCCAATCCTTCTTTTGAAAATTAAATATGGAACCTTAG
ATATATTTAGTCATTACGTTCNTCTGGCTTGATGGACATCATTCAAGAGCTTTTCAAAGCAT
TTGTTTCAGATCTTCAGTACTTGCCAGTTTTTCATACAGTCTCGGGTTTTTAAAACCTTTGAAAT
CAAGGACACGACGTCTCCAGTCTACCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCAT
CATTCGTGAAGGGGTTTCTTTTGCGGGACAGAGGATCAGATGTTGAGAGTTTGGACAAACTCA
TGAAAACCAAAAATATACCTGAAGCTCACCAAGATGCATTTAAAACCTGGTTTTGCGGAAGGTT
TTTCTGAAAGCTCAAGCACTCACACAAAAAACCAATGATTCCCTAAGGCGAACCCGTCTGATT
CTCTTCGTTCTGCTGCTATTTCGGCATTATGGACTTCTAAAAAACCCATTTTTATCTGTCCGC
TTCCGGACAACAACAGGGCTTGATTCTGCAGTAGATCCTGTCCAGATGAAAAATGTCACCTTT
GAACATGTTAAAGGGGTGGAGGAAGCTAAACAAGAATTACAGGAAGTTGTTGAATTCTTGAAA
AATCC

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Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																																
Population (millions)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4

FIGURE 320

GCCNAGCGGACGGGCGCTTAAACGGGGCTGCTCGTGCCGATTCTTTTACCTGAGAAATGCTAC
GACCAACTTTTCGTTCA GTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAA
GGCCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATC
CTGGGAGCCAAGAGTGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTG
ACTGGGACCATGGTCTACAGCATCACTAACAACCTTCCCATT CAGCTCTTGGGGTGAAGCCTTA
TTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGTCATGCACTACAGAGGACAGACTGTG
AAAGGTGTGCTTTTCTCGCTTGCTACGGCCTGGTCCTGCTGGTGCTTCTCTCACCTCTGACGCC

FIGURE 321

GTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCACGTCCAGTTTTTCAGCAG
ACGCAACTATCATGGACATTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGAACTCC
AGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCC
AGCAACTGGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAG
CAGCTCATCCCCTGATGACACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCC
AGACAGACCCCCAGACCCCTCAAGCCATCTGGTTTTTCATGAGGATGACCCCTTCTTCTATGATG
AACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCTGTTTCATCACAGGCATCATCA
TCCTCACCAGTGCGGACGCGTGGGCGGACGCGTG

GTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCACGTCCAGTTTTTCAGCAG

[illegible]

FIGURE 323

GAAGTGTTCACTGGACAATTNGCAAGTTAGGTCCAGTTCAGTTGGAGGATTCTTCCATTGTT
CCAAGGTGTGGNAATTNCAATGGTCCTGATCTCCATTTTTGTGNCAATCTATTNCAATGTCAT
AATTGCCTATAGTCTTTACTACATGTTTGCTTCTTTTCAAAGTGAACCTACCATGGAAAAATTG
TTCTTCGTGGTCAGATAAAAACTGTAGCAGATCACCAATAGTAACTCACTGTAATGTGAGTAC
AGTGAATAAAGGAATACAAGAGATCATCCAAATGAATAAAAGCTGGGTAGACATCAACAATTT
TACCTGCATCAACGGCAGTGAAATTTATCAGCCAGGGCAGCTTCCCAGTGAACAATATTGGAA
TAAAGTGGCGCTCCAACGGTCAAGTGGAATGAATGAGACTGGAGTAATTGTTTGGTATTTAGC
ACTTTGTCTTCTTCTGGCTTGGCTCATAGTTGGAGCAGCACTATTTAAAGGAATCAAATCGTC
TGGCAAGGTGGTATATTTTACAGCTCTTTTCCCCCTATGTGGTCCTACTCATCCTGTTAGTACG
AGGTGCAACTCTGGAGGGTGCTTCAAAGGCATTTCATACTATATTGGAGCCCCGGACGCGTGGG

FIGURE 324

CGGGGGGCNTACACCACTGCCTGNGTCTTCACCACCGCCGCGTGCAGTTGGAATTGATCACA
CCTTTTCAGTTGTACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATC
ACCAACTTCTTATTTTTTGGGCCAGTTGGATTCAATTTTTTATTTAACATGATTTTTCTATAT
CGTTACTGTCGAATGCTAGAAGAAGGCTCTTTCCGAGGTCGGACAGCAGACTTTGTATTTATG
TTCCTTTTTGGTGGATTCTTAATGACCCTTTTTGGTCTGTTTGTGAGCTTAGTTTTCTTGGGC
CAGGCCTTTACAATAATGCTCGTCTATGTGTGGAGCCGAAGGAACCCCTATGTCCGCATGAAC
TTCTTCGGCCTTCTCAACTTCCAGGCCCCCTTTCTGCCCTGGGTGCTCATGGGATTTTCCTTG
TTGTTGGGGAACTCAATCATTGTGGACCTTTTGGGTATTGCAGTTGGACCGGACGCGTGGG

FIGURE 325

TGCAAATTNTGAGATTCAGAGACTAAAGTAATTTATTTATACATAGCTAATCAGTGCCAGAGC
TGTGAATCTAAGATTATCTTGCTCTTAATCACAAAATACACAGTTATTAGTTGTTTGCATTT
GATGCAAATGACTTGGAACCCACACATTTTACACATTTTAAATGAATGAAATGACTAGTTTGA
TTCATTACACGTTTGTGGAAATTTTGCAGCTAGGTTTTAAATTAAGAACACCAGATTTATTTA
AATACAATTTAAAATCATTGTATTCCAAATGGAAGTTTTCTTCTATAAGAATACCAGGCTGGA
TGTGGTGGCTCACACTTGTAATCCTAGCACTTTGTGTGGCCGAGGAAGCGGACGCGTGGG

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FIGURE 326

GTCAGGATTTTTGAAGTTTTTTTTTATAGTGAGATAATGGAGTTGGTCTTAGCCGCTGCAG
GAGCCCTTCTTTTCTGTGGATTCATCATCTATGACACACACTCACTGATGCATAAACTGTCAC
CTGAAGAGTACGTATTAGCTGCCATCAGCCTCTACTTGGATATCATCAATCTATTCCTGCCGG
ACGCGTGGG

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FIGURE 327

CAAGTTAGGTGATCCAGNTTTTGTGGTCTTTTGCAACCCTTGTGGTCATTGTGCCCTTGATAT
TAATCTTCGTGGTGGGTCCCTCGCCATGGCAGACAAACATTCTTGTGTACATAACAATCTGCTC
TGTAATCGGCGCGTTTTTCAGTCTCCTGTGTGAAGGGCCTGGGCATTGCTATCAAGGAGCTGTT
TGCAGGGAAGCCTGTGCTGCGGCATCCCCTGGCTTGGATTCTGCTGCTGAGCCTCATCGTCTG
TGTGAGCACACAGATTAATTACCTAAATAGGGCCCTGGATATATTCAACACTTCCATTGTGAC
TCCAATATATTATGTATTCTTTACAACATCAGTTTTAACTTGTTTCAGCTATTCTTTTAAAGGA
GTGGCAAGAGATGCCTGTTGACGATGTCATTGGTACTTTGAGTGGCTTCTTTACAATCATTGT
GGGATATTCTTGTTGCATGCCTTTAAAGACGTCAGCTTTAGTCTAGC

FIGURE 328

AAAGTGGTCCTTTTAGGGTAAAGAGTTTTAAAGAGTTTAATGNGTNTATGGCAGGTTTGGGAA
AGGTAAGAAATGGGTCCTTTTTCCTCCTAATGTTTTTGGCACTTAAAACATAAAATTCATTAT
CCTATTAAAAAATTAAATTCAGTTTGCTAATCCAGAAATTGTTCCCAAATGAAAACCTTGTTTT
AAGTCCACCCCTTAGTTTTCTTATTTTACAAGGTCTCTCTTCAGGGACCAACAGGGGCTTAGA
GAGCCTTAGTTAGATTAAAGGGAGACCCTACCTCTTAAACAGTTTTTCATTTATGCAAACAA
GGACAATTAAGGGAACCCTGACCCACAGGCTCTCAAGTCTTCCCAAGGCCAGAATCGAAAGA
AAATTAAAAATTTGAATGCTGAATATTCTGGCTCTACTCTGGCCTTTTTTTCTGGTTCCCTTCC
AAAATGCACAAATCATACCCTTGCTGCTCCAATTCAGTCTCCAAACCTGGTGCCTGTGCTCC
TGGCCCCCCTAGCATCATGCTATCCCAGGAGTATCAGGACCAGACACATCCACGG

FIGURE 329

GGCNACGGCGGCCNAAGACGGACATGAAGCAATATCAAGGTTCCGGCGGGGTCCCCATGNATG
TGGAACGNAGTCGCTTTCCCCTACTGCGTGGTGTGNACGCCCATCCCGGTGCTCACGTGGTTT
TTCCCCATCATCGGCCACATGGGCATCTGCACATCCACAGGAGTCATTCTGGGACTTCGCGGGC
CCCTACTTTGTCTCAGAGGACAACATGGCCTTTGGAAAGCCTGCCAAGTACTGAAGTTGGACC
CTGCTCAGGTCTATGCTAGCGGGCCCAACGCATGGGACACGGCTGTGCACGACGCCTCTGAGG
AGTACAAGCACCGCATGCACAATCTCTGCTGTGACAACTGCCACTCGCACGTGGCATTTGGCCC
TGAATCTGATGCGCTACAACAACAGCACCAACTGGAATATGGTGACGCTCTGCTTCTTCTGCC
TGCTCTACGGGAAGTACGTCAGCGTTGGGGCCTTCGTGAAGACCTGGCTGCCCTTCATCCTTC
TCCTGGGCATCATCCTCAC

FIGURE 330

TTTGATTTAATGTTGGTTGTGTGTCTCCTCCTGGCAACTGGATTTTGCCTGTTTCAGAGGTTTG
ATTGCTTTGGATTGCCCATNTGAGCTCTGCCGATTATATACGCAATTTCAAGAGCCCTATNTA
AAGGATCCTGCTGCTTATCCTAAAATTCAGATGCTGGCATATATGTTCTATTCTGTTTCCTTAC
TTTGTGACTGCACTGTATGGCTTAGTGGTTCCTGGATGTTTCCTGGATGCCTGACATCACATTG
ATACATGCTGGAGGTCTGGCTCAGGCTCAGTTTTCTCACATTGGTGCATCTCTTCATGCTAGA
ACTGCTTATGTCTACAGAGTCCCTGAAGAAGCAAAAATCCTTTTTTTTAGC

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FIGURE 331

GAAAATATCTGGAGGTACTGCACATAAGGATTCCAATTTCTATTTTCAGAACTTTCATTTGTA
ATTTATGTACGCATCTAACGTCTATTTACGTGTATACTGAGTTAGGGTGTACAACTTTTCCCT
GAGGCTGTATCTCAAAA'AACTTTGGAAGCTGAAGAATTTGTCCAAATCTATGTTCCCTTTTTGTT
TGTAATCACCTGATGATGGTGATATAGCTGTGGCCAACGAAATGTCAAGGGAAGTCTGCTGG
GGAAGGTAGACGTAGGATAGGAGTATGGGAAAAAATTATTCACTCAAAAGCATGATGCACAGA
GGAGCTATGATCTTTTCTTGTTTTCTTCACTGGATGTTGTCATGTCTGTATGTACTTCCTGGA
ACTGTGGCACCATCTTACAACCATGAAAGGAGCTCACATGAAATCATGTTGAACATAGCAGAG

FIGURE 332

AGGTTGGTCCTTTTCCGGTTTTTTGGCCAATTTCAAGTTTCCAGNNTCCATNATCCAAGTTTG
AAGCCCCNTGGCGGATCCTTAAAAATCCCTGACCTGACCAGGGTCGCCAAGGGTCGCACAAGG
CCTGGGCCAGGTTCCACAGGGAGGTGAAAAAACTCCCATTCCGTTNAAAAGCAGTTTCCTTT
GGGACCCATTTCTTTTTCCCTTTGGCCATGGCCGTGNCCTCCAAAGGTTCCGGTAGTTTAAATG
CAAATGTTCTACCAATAGCCCCNAGAACTCCACCACCCTCTCTCTGTCTTGTGGCTCAAGTCG
AGCAACCTGAAAGGATATATTTTTTCAAATAAGTAATTCCTGTAGGCAATAAAAAGATACACT
ATCTTCTGAGTGAAATATAAAGAGTTCACAGCAGCTGTCTCCCCAGTTTGCATTTTCCTCTGC
ACCTGATGGGAAGGACAGATAAAGATAATGGGATTTTTTCTTTATTTTTTATTTTACCTCCCT
CTCTCCCTGGAAGGTGGAAATGTAACAAATTGGATTGTGAGTGTGTCTGTCCTTTGTGCTTGG
TGCCTGGAGCAGGGCATCCGGCTGCCGGGCAGAGCTGCTGCGAGAGAGGTCAGAGCTACC

FIGURE 333

CCAAGTTGAAGCCCATGGCGGTCCTTAAATCCTGCCTGACCAGGGTCGCCAGGGTCGGGCAAG
CAAGTGCCAGAAGAATAAAGAAGATGGACGCAAAAAGAAGAAAGGAAGNNCCAGAAGAGACGA
AGAGATGAAACGACAGTCAGATGANATGAGGAGGAAAGAAAGGTTTCANAAAGCCGNCGGAAA
TGAAAGNCGTCCTGGTTTGAANGAANTTGCCAANAGATAAATCCAGCAGGANAGGCCNAGAAA
GATCGAGGTCTGCTTATCTGCTGTTACCTTGGACACCAGAGCAGCTATAGGTATCTGCCAGAG
CTATGAAATCATTTCAGCCGGATCCTCTTCCTCGTCTTCCTCCTCGCCGGCCTGAGGTCCAAGC
CGCTCCCTCAGCCCCCTCTGCCTTTGGGCTGTGGCTTTCGGACATGGCCCACCCCTCTGAGAC
TTCCCCTCTGAAGGGTGCTTCTGAAAATTCCAAACGAGATCGCCTTAACCCAGAATTTCTTG
GACTCCTTACCCTGAGCCTTCCAAGCTACCTCATAACGGTTTCCCTGGAAACCTTCCCCTTGA
CTTCACTGAGCCCCCTCAACCCTGACCTCCGAGAAACCCCG

FIGURE 334

TTCAGACTCACTGAATCAGAACCNTGGGATAGGCCAGCACGCTGTGCTTTACCAAGCTCTAGG
TGATGCCAATTCATACTCAAGTGTGAGGCTGACTGGCTTATTTGAAGGGAGAGAAAGGAACAG
GCACATGGCGACATATCAGCATTTACACAAGGCGTGCTGGGTAACCATAGGAACACCTTTATT
ACGGTTAAATAGGAAACAGGCATCAATGCAGAGGGCCCCCAGGAGAATCAGGAAGGTCGCGAC
TGTCACTGTCTGAGGGCACTGTTGTGAAACGATGGCCGAAGGTGACAACCACAGCAAAGTTTC
AAGGAAGTTCAGTAAACGTGGAAAAACCCACTCAATGTCCTGCTCTCATTTATATTGAGTGG
CTTAAGTATTTATTTTCTTGGTTTTTTTAGAGGAAGGGAG

FIGURE 335

GAAGCTTCCGTTGCCAAGCGACATGTTCAAGGTAATTCANAGGTCCGTGGGGCCAGCCAGCTT
GAGCTTGCTCACNTTCAAAGTCTATGCAGCACCAAAAAAGGACTCACCTCCCCAAAATTCGGT
GAAGGTTGATGAGCTTTCCTCTACTCAGTTCCTGAGGGTCAATCGAAGTATGTGGAGGAGGC
AAGGAGCCAGCTTGAAGAAAGCATCTCACAGCTCCGACACTATTGCGAGCCATACACAACCTG
GTGTCAGGAAACGTACTCCCAAATAAGCCCAAGATGCAAAGTTTGGTTCAATGGGGGTTAGA
CAGCTATGACTATCTCCAAAATGCACCTCCTGGATTTTTTCCGAGACTTGGTGTTATTGGTTT
TGCTGGCCTTATTGGACTCCTTTTGGCTAGAGGTTCAAAAATAAAGAAGCTAGTGTATCCGCC
TGGTTTCATGGGATTAGCTGCCTCCCTCTATTATCCACAACAAGCCATCGTGTTTGCCCAGGT
CAGTGGGGAGAGATTATATGACTGGGG

GGCGGCCGAGGCGGACGGCCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGAGAAATGC
TACGACCAACTTTTCGTTCACTGGGACTTGCTTCACGTCCCTGCCTCAAGATTCTCCTCAGC
AAAGGCCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAA
ATCCTGGGAGCCAAGAGTGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCA
TTGACTGGGACCATGGTCTACAGCATCACTAACAACTTCCCATT CAGCTCTTGGGGTGAAGCC
TTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGTCATGCACTACAGAGGACAGACT
GTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCCTGCTGGTGCTTCTCTCACCTCTG
ACGCC

FIGURE 337

CGGAACGCGTGGGCGNACGCGTGGGCAAGATGTCCCTGTGGACTCCCAAACCTACTCCAGAT
GGGNAGGTGCCCTTAACACCAAGATTTTAAAAGCTCCAATTTAGAGCAAGAGTCGAAAACCTC
ACAGATAAAGTTATAGTTATTTAGGGTTCTGAAAAGACGCAGAACATGAAGGGACTCAGAAG
TCTGGCAGCAACAACCTTGGCTCTTTTCCTGGTGTTTGTTTTCTGGGAACTCCAGCTGCGC
TCCGCAGAGACTGTTGGAGAGAAGGAACTGGACTCCTCAAGCTATGCTCTACCTGAAAGGGGC
ACAGGGTCGCCGCTTCATCTCCGACCAGAGCCGGAGAAAGGACCTCTCCGACCGGCCACTGCC
GGAAAGACGAAGCCCAAATCCCCAACTACTAACTATTCCGGAGGCAGCAACCATCTTACTGGC
GTCCCTTCAGAAATCACCAGAAGATGAAGAAAAAACTTTGATCAAAC

FIGURE 338

CCNTGCACAAGCAGCACTTTCTTTTGCCATAGCAACATGTGCATCAATAATTCTTTAGTCTGT
AATGGTGTCCAAAATTGTGCATACCCTTGGGATGAAAATCATTGTAAAGAAAAGAAAAAGCA
GGAGTATTTGAACAAATCACTAAGACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTC
TTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTGAAACAGCCTCGAAAAAAGGTCATGGCT
TGCAAAACCGCTTTTAATAAAACCGGGTTCCAAGAAGTGTTTGATCCTCCTCATTATGAACTG
TTTTCACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTCGGAAGAATTGGACAAC
TACCAGAAGATGCGGCGCTCCTCCACCGCCTCCCGCTGCATCCACGACCACCACTGTGGGTCG
CAGGCCTCCAG

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FIGURE 339

AAATAAAGAACCATGGTATCATGTTGNTCAGTGCTTCAGACAGAAAGATTGTTGAAGCATCAA
GGAGAGCTTTTGTTATGTGGCAATGAACTACGAAGAGGAAATGGCCAAGAAAACCCGATTGTCT
AGAGAAAGTTTACCAACTACCTGATGGGAAGGTCATCCAGCTCCATGACCAGCTCTTTTCTTG
TCCAGAGGCCCTCTTCTCTCCGTGTCATATGAACCTTGAGGCCCTGGCATTGATAAGATATG
CTTCAGCAGCATAATGAAATGTGATACAGGCCTGAGGAATTCCTTCTTTTCCAATATTATCCT
TGCCGGGGGATCAACCTCTTTCCTGGTTTAGACAAGCT

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FIGURE 340

TGGCGGTCCTAAAATCCTGNCCTGACCAGGGTCCGGCGGTTTCAGTTGGAGGAAAAGTGTAGCC
TTGCAGGTGGCAANTGGTCCAGGTACCGGTATTTGGCNGGCCCGTTTTTGCCTCCTCCTCCGT
GGGTGCGGCGGGAATNTTGGCCGGNCGGCCTTGGGACGGCCCAGGTCCCGGCCGCAAGGTCCG
GGCCAATACATAGTCATCAGTAGAACTTCTTGAAGTTGTTCAAGAAAAATTTGAAAGTAGCA
AAATAGAAAATAAAGAATTAACAGCAGATACAGAGGCAGCATGAAGTGTTGTCTTAGGAAACA
GAACACAGCAGTGAAAAAACAGACAAAATCCGCTCAGATACAACCTGCAGCTGATAATGTTTTTC
CGGCTTCAATGTCTTTAGAGTTGGGATCTCTTTTGTGATAATGTGCATTTTTTTACATGCCAAC
AGTAAACTCTTTACCAGAACTGAGTCCTCAGAAATATTTTAGTACATTGCAACCAGGAAAAGC
CTCTTTAGCTTATTTTTGTCAAGCTGATTCCCCAAGAAATACA

FIGURE 341

CCGAATCAAGTTCGAGTCATCCGTGTGGGCATTNGTCCCCNTGGCACAGTTGGCTTCTTTCC
AGAAGCCCGTTTTGTTTGTTTTACGTCTAAATTCGCGTCGGTTCTTATTTCTCTCCCTGGCAA
GGTCTGAAGACGGGTAGGAGAATAACCTGTGTCAGCGTGTTATGATGCCGTCCCGTACCAACC
TGGCTACTGGAATCCCCAGTAGTAAAGTGAAATATTCAAGGCTCTCCAGCACAGACGATGGCT
ACATTGACCTTCAGTTTAAGAAAACCCCTCCTAAGATCCCTTATAAGGCCATCGCACTTGCCA
CTGTGCTGTTTTTGATTGGCGCCTTTCTCATTATTATAGGCTCCCTCCTGCTGTCAGGC

CCGAATCAAGTTCGAGTCATCCGTGTGGGCATTNGTCCCCNTGGCACAGTTGGCTTCTTTCC

FIGURE 342

AGTTCCGGCAAGGGTGCATCCGGCNTGTGTGTGGCGCAAGGCAAGGAAACCGGTACCCGGGTC
CTGGCCCCAGCGCTGACGTTTTCTCTCCCCTTTCTTCTCTCTTCGCGGGTTGCGGCGTCGCAG
ACGCTAGTGTGAGCCCCCATGGCAGATACGACCCCGAACGGCCCCCAAGGGGCGGGCGCTGTG
CAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGCTTGTTACAGTTTAC
TGCTCTGCTCTGTTTGTCTGCCTCTTCTTGGGTTGCATGAAGCAGCAAGCCTTTACCAACGT
GCTTTGCTGGCAAATGCTCTTACCAGTGCTCTGAGGCTGCATCAAAGATTACCACACTTCCAG
TTAAGCAGAGCATTCCCTGTCCCAGGCTTTGTTAGAGGACAGCTGCCACTACCTGTTGTATTCA
CTCATCTTTGTAAATTCCTATCCAGTTACAATGAGTATCTTCCCAGTCTTGTTATTCTCTTTG
CTTCATGCTGC

FIGURE 343

CCTGACCCAGGGTCCGGNGGCAATTTTCCATTTATGCCCTGTGGTNCGGGACATACCTAGATN
TCAGNCCATTTCCCTCCAGGTTTTGGCCTTGTTTTAAGGCCCTGGGCTGGGATTNCAAGTGGCT
TGATCAACCCCCNNTTTGGNCCAGTACTACCCTTAGGGNCCGTGACCNTGACTNNTNTGCAGCAT
TTTCATACCTATCGGGTTGGGCGTCTTCATTTCGCTACAAATACAGCCGGGGGCTGANTACATT
GTGAAGGTTTCCCTGTGGTCTCTGCTAGTGACTCTGGTGGTCCTTTTCATAATGACCGGCACT
ATGTTAGGACCTGAACTGCTGGCAAGTATCCCTGCAGCTGTTTATGTGATAGCAATTTTATG
CCTTTGGCAGGCTACGCTTCAGGTTATGGTTTAGCTACTCTCTCCATCTTCCACCCAACTGC
AAGAGGACTGTATGTCTGGAAACAGGTAGTCAGAATGTGCAGCTCTGTACAGCCATTCTAAAA
CTGGC

FIGURE 344

CCTAAATAGGGCCCTGGATATATTCAACACTTCCATTGTGACTCCAATATATTATGTATTCTT
TACAACATCAGTTTTAACTTGTTTCAGCTATTCTTTTTTAAGGAGTGGCAAGATATGCCTGTTGA
CGATGTCATTGGTACTTTGAGTGGCTTCTTTACAATCATTGTGGGGATATTCTTGTTGCATGC
CTTTAAAGACGTCAGCTTTAGTCTAGCAAGTCTGCCTGTGTCTTTTCGAAAAGACGAGAAAGC
AATGAATGGCAATCTCTCTAATATGTATGAAGTTCTTAATAATAATGAAGAAAGCTTAACCTG
TGGAATCGAACAACACACTGG

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Demographics		Health status		Health care use		Health care costs		Health care utilization		Health care satisfaction			
Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)		
Age	65.2 (10.5)	Gender	Male (50%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)
Marital status	Married (60%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Education	High school (60%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Income	Low (40%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Health status	Good (60%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Health care use	Low (40%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Health care costs	Low (40%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Health care utilization	Low (40%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		
Health care satisfaction	Low (40%)	Health status	Good (60%)	Health care use	Low (40%)	Health care costs	Low (40%)	Health care utilization	Low (40%)	Health care satisfaction	Low (40%)		

GCAGCATTCAGAGTTACTGGCTGTCAATTTTTTCATGGTGATGATTTTATTTGTAGCTTTCATAA
CCTGTTGGGAAGAAGTTACTACTTTGGTACAGGCTATCAGGATAACTTCCTATATGAATGAAA
CTATCTTATATTTTCCTTTTTCATCCCACTCCAGTTATACTGTGAGATCTAAAAAATATTCT
TATCCAAGCTCATTGTCTGTTTTCTCAGTACCTGGTTACCATTTGTACTACTTCAGGTAATCA
TTGTTTTACTTAAAGTTCAGATTCCAGCATATATTGAGATGAATATTCCTGGTTTACTTTG
TCAATAGTTTTCTCATTGCTACAGTGTATTGGTTTAATTGTCACAAGCT

FIGURE 347

ACAATGTTGGGTAAAATAATTGGGGGGGACTTTTGGGCCNTTCAGGNTTAATAGTATTAAGTC
TATGGGCAANTGGAGCCTTAGGANAATTTGGGGGGTTTTTAATCTTTTTTCTTGGTGGGCTTAG
ATTTTTCTCCAGAAAAGTTAAGAAAGGTGTGAAGATTTCTTACAAGGCCCGTGTTACATGCC
ACTGTTAATGATTGCATTTGGCTTGCTGTGGGGGCATTTCTTGCGNATCAAACCCACGCAGAG
GGTNTTCATTTCCAAGGTGTCTGTCTTTGTCAAGCACACCCCTCGTGTCCAGGTTCTCATG
GGCAGTGCTCGGGGTGACAAAGAAGGCGACATTGACTACAGCACCGTGCTCCTCGGCATGCTG
GTGACGCAGGACGTGCAGCTCGGGCTCTTCATGGCCGTCATGCCGACTCTCATAACAGGCGGGC
GCCAGTGCATCTTCTAGCATTGTCTGGAAGTTCTCCGAATCTGGTTTTGATTGGTCAGATT
CTTTTTTCTACTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCTCATTTGGACCC
TATTATCGGAAGCTGCACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTTGGAATATCT
GCCTTTATCTTCTTAATGTTAACGGTCACGGAGCTGCTGGACGTCTCCATGGAGCTGGGCTGT
TTCCTGGCTGGAGCGCTCGTCTCCTCTCAGGGCCCCCGTGGTCAACCGAGGAGATCGCCAC

FIGURE 348

AAAAAAAAAAAAAAAAAAGAACCACTTCTGCCTTATCATTCCTCTCTTTATTACCGAAATG
CGGAGACAGAAAGTCAACAGAGAAAGAATTGTTTTCCCAAGGCCACACAGATTGCTCCAACA
CTTGACTTTTCCTGCTAGGA ACTCAATCCAAGAGATGGGCTTCTTTTGTTCTCTGACTATAA
AAGGGTGTCACCTTGTCACCATCTTCTATCACACAGGACCCCTATGGGCTTGTTTGGTTTTG
TTCTTTCATCATTATTATTGGAAGTTATATTTCTTTACTGTCCTTGAGGTGTGAGGCTTC
ACCTCATCTTGTCTCCATATCCCTGAG

FIGURE 349

TGGATCCCATGGCCAGGGNGGCGTCCAGGTGCAAACCAGTAGAACNCAAGGCCTGAACCTGGG
GCCAGACACCTTGTTTTCCCCGGCCATGGTCAAGACCNTCCAGTACNTGCCTTACTGTGGGCC
CAGAANTGGGCCAAGTCTTGGCAGCCCCGTGCCGCAGGTTGTTGTGCAGTTTGGGGTGTTCCTC
TGCACCATCCTCCTTTTGCTCTGGGTGTCTGTCTTCCTCTATGGCTCCTTCTACTATTCTAT
ATGCCGACAGTCAGCCACNTCAGCCCTGGCATTCTACTACAGGACCGACTGTGATTCTCTCA
CCACCTCACTCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTAAGGGTGGACGTGATCGGG
TGCTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTCCCCCTGTGA
ATCAAGATTTGGGCATGTTCTTGGTCACCATTTCTGCTACACCAGAGGTGGCCGAATCATCT
CCACTTCTTCGCGTTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACAC
TGGTCTTCTCTAGCCTCCTGCTATTTGGCTTTGCAGAGCAG

FIGURE 350

AAATTTGAAACCCATAAGTTACCAAGTCTATATCAGGNGCAGTGGCTTTGATTAAAGCCCATT
TTTAAAACTTAAAACTCAACNCNTCCCAGATTATAATAGAAAAAGAAATGGCNTCAGTTTGA
TCTCGTTCAGAATGCCCCAGATTGTTCTGCTTTGGGGCAGCTGTTTAGTTCAGAGTTATATTN
CAGAGAATTATTTTCTGAGATAATCTTAACTAGAATGTTCAAACTAATTGATAATTGAAGT
ATCAAGATACGTAGAACACCTCAGAGATTTTTCTTCAGGAACTTCCACAACTTTGAATCCTT
GTATCTTTATTTGGTATTCATACTACTAGTAGCAAATACAGGTTTTTTGTTTTGTTTTGTTT
TGTTTTGGCTTCATAGAGTATCTCAAATTGAACTTTTTCTGCACAAAGAATAAAATTAAGGAT
TTTATAAACTCAAATTGGCACCTACTGAATTAAAATACATAAAATCATTTAAATATAATTCAG
CATATGGGAAGTAACATTGCACTAATATGGAAATCACTGCCAGAGACAGTCTATTTTCTTTTA
ATTTGTTACTACTTAGTCACAAA

FIGURE 351

TCAGAAGGGAATGAAATCCNCAGCGGACCTGGCATCAAAAACCTTTGGGCAAAGCAATTGAATT
GNAAGCAATAAAACNGACTTTTATCAAGTCCTAAATGTACAAGAGAAGAAGAGAAAATCACTTG
ACAATGAAGTTGAAAAGACAGCAAATCTTGTCATTAGCAACTGGAATCAGCAAATTAAGGCCA
AGAAGAAATTAATGGTTAGTACCAAGAAACATGAAGCACTTTTCCAGCTTG TAGAAAGCTCCA
AGCAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATAAACTGACAAAATCAACTGAAA
AGTTGGAAAAGGAAGATGAAAATTACTACCAAAAAAACATGGCGGGTTATTCTACCAGACTGA
AATGGGAAAACACACTAGAGAACTGCTACCAGAGCATTCTGGAGCTGGAGAAGGAAAGAATTC
AACTTTTATGCAATAACTTAAACCAGTACAGCCAACATATTTCTCTTTTTTGGCCAAACCCTGA
CCACATGCCACAC

FIGURE 352

TTTAAAGAAATGGGTAAATACTGAGCCTTTNTGCAACCTTTTTTGGGAAGCACCAGCCNCAGA
AGATTCTGTGACTTGTGTGCTTTTAGGTGCACCCTCAGACNTCTGGCTCAGTACACCTCGGGN
TGATTGAGACTGTTGCCTCAGTCTCTCATTTGGGTTGACATTATTCATTTTAATGAATGAATA
CATTTGTGCGCAGAAAGTGGAAATCTCTCATTTGTTGAGAGAAAATTCTCAGCTTGAGTCAAGAA
GTTTCCATATTTACCAGAACCTTCTAGCTTTGATGAGCATAATCACTGCTAAAATAATGTGTC
TTCTGAGCAGCTGGGTACCAGTGCCTGTGGCCTGTAGCATTAGTTACTGCCTGAGGGATGGTG
ACTGTTACCGCAGAATGGTGGGCTTCGTTGACTTGTCTTCTCTCCTCTCCCTCTTACCCACTT
CCCGGAGAAACAGGACAGCAGGCACAGCCAGTAACAAGCTGTGGTACGCCTCCCTGGCCCTGG
TGACGCTCATCATGTATTCCATTGCCACTGGAGGCTTGGTTTTGATGGCAGTGTT

FIGURE 353

GTGGGCCAATGCTGTCCAACTACAGGGGGTTAATGTAAAGCTTGTGNTAACATATGAAAAGT
ATTTAGAAAAGAGCTTGGCATGTAGTAACCACTCAATAAAAGTTAGCTACTATTATGAAGTGTT
TTCCAATGGTTTATTTAGAAGCAAAATAGTATCAGTNTAGAAGTCCAGGCTTGTTTTTCTCCC
AAACATGTTTTCACAGTGCTTCCATGGTCTCCTTTCTCCTTTTCTTCTTCTCCTCTCTCTAAA
AACATATTTTGCTGTGTCTGCTTGGTCATCTTTCCTGGGCCAGAGAAAGAATCCCTGAGGGT
TGGACAAGGGGAGCAGCTGAGTTGGTGAGAAAAGGAGCCCAGCAGGTTGAATGCCTCGAACCA
CTGTGATGAGCTCTTGAGCTGGGTGCCAATCAAAGTGAAGCAGTGGGGCTTGCCAGGTGAGAT
GTTAATTTTCAGCAGTCACACGTGTCCCTGTCTGGACTCTCCCTAGGACTCTTGACCCTACCCT
GCAGTGGTTTGAAATGGATTTTATTAGGCTTTCATTACATTCTCATATCATTTTTTTCACTTG
GTATCTAAGCTACACGAGAGCCAGTGTAGTGCTTTGTCCTTG

FIGURE 354

CCGGTAACCCATTGGGCCTGGCNTAANAAAGTTTTTTTAAGCCATTAGACGTTTTTTAAAGGAA
TTGGNAGATGNCAATTGGGGAAATATTTAAAATTTAAGTAAAATATAAAGCTTCCTTATTTCA
TGTAACCCAGNCAATCTCAGTATACATGATCAGTTGTGTCTGACAGGTAAATCTATTTGAGGC
CTTATCACACGTTACTTTTAAGAACTAGAAAGGAAAAGTCACTGATCTTAAGTATTTATAATA
CTTCATGTGGTCTAATACTTTTTACGTTTTGTGTTTGATTTCAGATTTAGTCCGGATTCCCGGTA
TCTGGCAGTAGGTTCTAGTGAGAACTCAGTGGATTTTTATGACCTAACGCTGGGCCCCACTCT
TAACAGAATCAGCTACTGCAAAGACATTCCAAGCTTTGTCAATCAAATGGACTTCTCTGCAGA
TAGCAGTTATCTCCAGGTACAGTACCAATACTGTATACCCAGGTGGCAAGTTCTTCTGCTTTT
ACATTTTCGTGTTAGTGAATGCATTTAAAGTTCCTGAGCTCCAGAGCTCCAGCTTCTCAACTCC
TCCCTTTGTACCTTCTGACCTACAGCTCCTCTTTCC

FIGURE 355

TCATGGCGGTATACTTTGGCAAGTGGTTATCTTTTAACGGGTTTCATTTTCCCAGTTGTTAAA
TTTACAGTTGGTTAANTAAAAGTTTTTCCCAGTACGANCAGGGCGTAATCANAGATCCNTAAG
TGTTTAGTNCAGGGCATGTGCTTTTTTAAAGTGGGNATGGCTATTTACAGATTGGCCTACACTG
TTNTGGTGGGAGCCNTCAGTGACCAAGGAGCAGAGGTAAGTAAACCCACCCCTGAAGCCATN
TGGATGCTCCGTTTCAATCAAATCTGGGGTGTTCTAACCCAAAGTAACTGGCCACAGACTGCAA
TGTAAGATACAAATCTTCAGGACCTAGTGTGTGCACATGTTGGCTCTTATATAAGATGGCATC
CTTAGTACTTGTTCTATGTAGAAAAGAATTTGTGGGCTCACAAGTCCCTACAGAGTCTCACAC
TCTCATGGCCAATAAGTATACAGGGATACCCGGAATTAGACAAACACAGATGAGACATTTATT
TCTGTATATGAATTTATTTTATTTATTTATTTATTTTGGGACAGGGTCTCGCTCTGTCGCC
CATCCTGGAGTGCGGTGGCCTGGCTCATTGCAAGCTCCGCCTCCCGGGTTTACACCATTTCTGC
CTC

FIGURE 356

TTAATTAGATAATTTAAAGTAGCGTTTTTTTTCTACAATGTNTGAAGAAGTGACCTACGCGACA
NTCACATTTTCAGGATTCTGNTGNAGCAAGGAATACCCGAGATGGAAATAACNTAAGAAAAAGA
GGGCATCCAGCTCCATCTCCCATTTGGCGTCATGCTGCTCTGGGTCTGGTAACTCTTTGCCTG
ATGTTGCTGATTGGGCTGGTGACGTTGGGGATGATGTTTTTGCAGATATCTAATGACATTAAC
TCAGATTCAGAGAAATTGAGTCAACTTCAGAAAACCATCCAACAGCAGCAGGATAACTTATCC
CAGCAACTGGGCAACTCCAACAACCTTGTCCATGGAGGAGGAATTTCTCAAGTCACAGATCTCC
AGTCTACTGAAGAGGCAGGAACAAATGGCCATCAAACCTGTGCCAAGAGCTAATCATTCACTACT
TCAGACCACAGATGTAATCCATGTCCTAAGATGTGGCAATGGTACC AAAATAGTTGCTACTAT
TTTACAACAAATGAGGAGAAAACCTGGGCTAACAGTAGAAAGGACTGCATAGACAAGAACTCCAC

FIGURE 357

CAAAAANAGTGCCCGTCCNGTTGTTGTAAGTGAAGGGACGGCAGTCAGTTGACCCTGCAGTGT
GCAGGCGAGCGCAGGGAGTACGCCATGTCCTGAGAAGGGGCGATTCTCAGGCTNTGGCAGTTA
CAGCTTCTCCTCACCCCTGCCGAGCAACCAGGCCACGGGGCTCCGTGCATCGCCACCTAGAGTG
TTACCCTNTTCCTTGTTACGGAGGTTCTCCGCAGTGTGTGAGAAAGAGGCCCTCTCTCAGAT
GAATGGATAAAGAAAATGCAGGACATATGGGGGGAGGAGCCAAGATGGCCGAATAGGAACAGC
TCCGGTCTACAGCTCCCAGTGTGAGCGACACAGAAGACAGGCAAGAAGAATAAATGTCTCTGG
TGGAACTTTTGCTCTGGTGGAAC TGCTTTTCTAGAACTGGTGTTGCAGCATCCCTGGAAGTGT
CAGAGAGCCCTGGGAGTATCCAGGTGGCCCGGGTCAGACAGCAGTCCTGCCCTGCACTTTCA
CTACCAGCGCTGCCCTCATTAACCTCAATGTCATTTGGATGGTCACTCCTCTCTCCAATGC

[illegible]

FIGURE 359

AGTGCCGTCCCGGTGTTGTAAGTGAAGGACGGCAGTCAGTTGCCCTGCAGTGTGCAGGCNAGC
GCAGGAGTACCGCCATGTCNTAANAAGGGCGATTNTCAGGNTNTGGCAGTACAGTTTCTCCTC
ACCCTGCGAGCAAACCAGGCCACGGGGCTCCGTGCATCGCCACNTAGAGTGTTACCCTCTTCC
TTGTTACGGAGGTTCTCCGCAGTGTGTGAGAAAGAGGCCCTCTCTCAGATGAATGGATAAAG
AAAATGCAGGACATATGGGGGGAGGAGCCAAGATGGCCGAATAGGAACAGCTCCGGTCTACAG
CTCCCAGTGTGAGCGACACAGAAGACAGGCAAGAAGAATAAATGTCTCTGGTGGAACTTTTGC
TCTGGTGGAAGTGTCTTTCTAGAACTGGTGTTGCAGCATCCCTGGAAGTGTGAGAGAGCCCTG
GGAGTATCCAGGTGGCCCGGGTGCAGACAGCAGTCCTGCCCTGCACTTTCACTACCAGCGCTG
CCCTCATTAACCTCAATGTCATTTGGATGGTCACTCCTCTCTCCAATGC

FIGURE 360

CAAAATGTTAAGAACGTCCACTCCTAATCTGTGGGTGGTNTGCATTGCCGGGGCCCCNTGGTTN
TCTTNTGGCATTNTTNTGCTTNTGCNTCATATTCTTGTTAGGCCAGGTGGGCTTGTTGCAGGAC
ACCCCCAGTGCNTGGATTACGGGGCCCCCTTCCAGCCCCCTTGCACCTTGAGTTTTGCTCTG
ACTATGAGTCCTTCGGCTGCTGTGATCAGCACAAGGACCGCCGCATCGCTGCCCCGGTACTGGG
ACATCATGGAATATTTTGATCTGAAGAGACATGAGCTGTGTGGAGATTACATTAAAGACATCC
TTTGCCAGGAGTGCTCGCCCTACGCAGCCACCTNTACGACGCCGAAAACACCCAGACGCCTC
TCCGGAATCTCCCGGGCCTCTGCTCTGATTACTGCTCTGCCTTCCATTCTAACTGTCACTCAG
CCATTTCCCTGCTGACCAATGACCGCGGCCTCCAGGAGTCTCATGGAAGGGACGGTACCCG

FIGURE 361

CCCACGCGTCCGGCTTGAAGACTGACAAGATGTCCCTGTGGACTCCCAAACCTCTACTCCAGAT
GGGGAGGTGCCCTTAACACCAAGATTTTAAAAGCTCCAATTTTCAGAGCAAGAGTCGAAAACCTC
ACAGATAAAGTTATAGTTATTTTCAGGGTTCTGAAAAGACGCAGAACATGAAGGGACTCAGAAG
TCTGGCAGCAACAACCTTGGCTCTTTTCCTGGTGTTTGTTTTCTGGGAAACTCCAGCTGCGC
TCCGCAGAGACTGTTGGAGAGAAGGAACTGGACTCCTCAAGCTATGCTCTACCTGAAAGGGGC
ACAGGGTCGCCGCTTCATCTCCGACCAGAGCCGGAGAAAGGACCTCTCCGACCGGCCACTGCC
GGAAAGACGAAGCCCAAATCCCCAACTACTAACTATTCCGGAGGCAGCAACCATCTTACTGGC
GTCCCTTCAGAAATCACC

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FIGURE 362

AATCACCCGGGTCGCTGTTCCCTNAGGTGGTCAAGGTGGACAGGGGCGGTGGTNATGGCNCAGT
TTGACANTGAATACCAGCGCCTAGAGGCCTCCTATAGTGATTACCCCCAGGGGAGGAGGACC
TGTTGGTGCACGTCGCCGAGGGGAGCAAGTCACCTTGGCACCATATTGAAAACCTTGACCTCT
TCTTCTCTCGAGTTTATAATCTGCACCAGAAGAATGGCTTCACATGTATGCTCATCGGGGAGA
TCTTTGAGCTCATGCAGTTCCTCTTTGTGGTTGCCTTCACTACCTTCCTGGTCAGCTGCGTGG
ACTATGACATCCTATTTGCCAACAAGATGGTGAACCACAGTNTTCACCCTACTGAACCCGTCA
AGGTCACTCTGCCAGACGCCTTTTTGCCTGCTCAAGTCTGTAGTGCCAGGATTCAGGAAAATGG

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FIGURE 363

GTCCGAACCTGAGCAAACACAGCAGCCCGAGTGTTCCCAAGGCCAAAATGCTGAGAACGTCCA
CTCCTAATCTGTGTGGTGGTCTGCATTGCCGGGCCCCCTGGCTCTCTTCTGGCATTCTCTGCC
TCTGCCTCATATTCTTGTTAGGCCAGGTGGGCTTGCTGCAGGGACACCCCCAGTGCCTGGATT
ACGGGCCCCCTTTCCAGCCCCCTCTGCACCTTGAGTTTTGCTCTGACTATGAGTCCTTCGGCT
GCTGTGATCAGCACAAAGGACCGCCGCATCGCTGCCCGGTACTGGGACATCATGGAATATTTTG
ATCTGAAGAGACATGAGCTGTGTGGAGATTACATTAAAGACATCCTTTGCCAGGAGTGCTCGC
CCTACGCAGCCCACCTCTACGACGCCGAAAACACCCAGACGCCTCTCCGGAATCTCCCGGGCC
TCTGCTCTGATTACTGCTCTGCCTTCCATTCTAACTGTCACTCAGCCATTTCCTGCTGACCA
ATGACCG

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FIGURE 364

CCCACGCGTCCGTGAACACACAAAGAGCTTATTTTGT TAGGCAAATACACATTAATAAGAATG
CCTAGAAGAGGACTGATTCTTCACACCCGGACCCACTGGTTGCTGTTGGGCCTTGCTTTGCTC
TGCAGTTTGGTATTATTTATGTACCTCCTGGAATGTGCCCCCAGACTGATGGAAATGCATCT
CTTCCTGGTGTGTTGTTGGGGAAAATTATGGTAAAGAGTATTATCAAGCCCTCCTACAGGAACAA
GAAGAACATTATCAGACCAGGGCAACCAGTCTGAAACGCCAAATTGCCCAACTAAAAACAAGAA
TTACAAGAAATGAGTGAGAAGATGCGGTCACTGCAAGAAAGAAGGAATGTAGGGGCTAATGGC
ATAGGCTATCAGAGCAACAAAGAGCAAGC

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FIGURE 365

TGGTTGGGGCCTCCAAGATTAGAATGTTACTAGGGCCAAAANCAGTGGGATTGGTAAAAGAGG
CAATGATACCCCCATGAGAGCNTTCACATNCAGAACCAGNCAGAACTTCAAAGGTTTTGATGA
TANCAATGATGATTTCTTGACAATGGCAGAATGTCAATTCATTATCAAACATGAACTTGAAAA
TCTTAGAGCTAAAGATGAAAAAATGATCCCTGGTTACCCTCAGGCAAAGTTGTATCCAGGAAA
ATCATTGTTGAGAAGATTGCTCACGTCTGGCATCGTGATTCAGGTGTTTCCACTGCATGACAG
TGAAGCCCTGAAGAAGCTTGAGGACACCTGGTACACTCGGTTTGCTTTGAAGTATCAGCCCAT
AGAGAATCACAGATTGGAATCTGCCTATCAGAACCATCTAATTCTGAAAGTTTTAGTGTTCAA
CTTCCTCAATTGCTTTGCCTCACTCTTCTATATTGCCTTTGTCTTGAAAGATATGAAGCTTTT
GCGCCAGAGCTTGGCCACTCTCCTAATTACCTCCCAGATCCTCAACCG

FIGURE 366

ATTTGATTAAATTATGAATGAGTTTTACAAATTCCTTTCAGAGTTTTACTAAGATCACACAAA
TAACAGCTTTNTTATTCAGTGAAAAAGATATTTTATTTCTGATGTTTTATTTGCACTCGTGGA
ATATGTTACCATTAATCAGAAACATCATGGCAACCCCTAAGAATAGACTAAGTTTGTGTTGGC
TGAGGGATTNTATTTGGTTTGCTTTTTTTTTTGCTTTGTTATATTTTATTGCTACA

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FIGURE 367

GGCTACAAC TGCTCAACATGGGAAAAGACATTCCGGGCAGATCGGCTTTTGAAAGCTTAAAGG
GAGCTTGATGCTGGCAATGGGATCAGAGTGTTTGACNTGACATCGGGATGTTTATTGCTAGTC
TGACCATCTGGCTCCTCTGTANAAACATTGTTTCAAGAACCTGTGACAGACGAAGCAGCACAGA
GTAACCCGGAGTTTGAAAATGAAGAATTGGCTGAAGGAGAAAAAATTGATTCAAGAGAGGCNC
TGATCTATGAAGAGGATTTCAATGGAGGAGATGGTGTGTAAGGCGAGTTGGAAGAAAGCACGA
AGTTAAAAATGTTCCGCAGGCTTGCCCTCTGTGGCCTNTAAGCTCAAGGAGTTCATTGGCAACA
TGATCACCAC TGCTGGGAAAGTCGTTGTTACCATCTTACTGGGCTCCTCGGGCATGATGTTGC
CGTCTTG

FIGURE 368

TTAAGCCGGAAAATCCCCTTGAACCCAGAAGCGGAAGGTNCAGTCACCCAAAATGGNGCCCAT
TGCATTCCAGCCTCGGTNCGGAGCAAGACTTTGTTTAAAAAAAAAATTTAAATTAGCCATTAC
CCCTAGNTAATTTTTTAAATTTTTTGTGAANANAGGGCCTCACTGTCTTGCCCAGGCTGGTCTC
GAACTCCAGGCTTCAGGTGATCCTTCTGCCTTGCCCTCCCAAAGGGCGGGATTACAGGTGTGAG
CCACTGTGCCCAACTCATTACTTTTTTAAAAAATTACTTTCCATTTCTAGTTTATATATGACA
GGTACTTACTTTAAGTAGTAAATATTATGTTTAAACAATAAAATGATCAGGATTTCCCC
CGACATGCTTTCCTTTCTTCTCTTTTTCTTCCTTTCTCTCTCATTTTATCCCTTCTCCTGCCC
TTTTTGGAAGTCCTTATTGGAGGAAAAAATAACTTGCCCTATTTGTTTCCTCACTAATTGTTA
TCAGTCTCGGGTATCAAGGCAAGCAGATTCAAATTGCTGTAATATATACAGTGCAATTAGATT
AGAGTCTACTAAGAATTTAATTGGAGAATGTTCAAATACTTTTCTAAAGTTAATTTTTTTTAG
TATTCA

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FIGURE 369

TAGAAGGTCCGTCATGGACCCCAGATCCATTTCTAGNAAGGCCGTCATGACACCCNNGGATCC
ATTTCTAGNAGGGCCGTCATGACACCCCGGATCCTTTTCCCCTCAGAGGGGCTNGTCATGAC
TCAGACACATCTCCTCCCAGAGGATCCGTCATGACTCCTCAGACACTTCACCCCCAAGGAGGG
CCCGTCATGATTCTCCAGATCCTTCTCCCCCAAGGAGGCCTCAGCATAATTCTTCAGGTGCAT
CTCCTAGGAGAGTCCGTCATGATTCACCAGATCCCTCTCCTCCTAGGCGAGCCCGTCATGGTT
CCTCAGATATCTCTTCCCCCAGAAGGGTCCATAACAACCTCCCCTGACACATCTAGGAGGACTC
TTGGCTCTTCAGACACACAGCAACTCAGAAGGGCCCGTCATGACTCCCCTGATTTGGCTCCTA
ATGTCACTTATTCCCTG

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FIGURE 370

CGGANGCGTGGCCGAACGCNTGGTCCAACCATATGCCAGGTTCAACNCGGATAAAAGTTAGGA
AACGTAACCAGCTTCATTTTTTTGNCAGCAGACTTAAAGATCTGAACTTGGAACATAATCA
AGGATTTATGTGCTGCTCTTTGGATTCTGATGAAGAATCCAGTGCTCATATGCCTAGCTCTGT
CAAAAGCTACAGAATATTTAGTTATTATTGGAGCTTCTGAATTTTGCCTATATATTTAGAAA
ATCAGTTTATATTAACACCCACTGTGGCAACTACACTTGCAGGACTTGTTTTAATTCCAGGAG
GTGCACTTGGCCAGCTTCTGGGAGGTGTCATTGTTTCCACATTAGAAATGTCTTGTAAGCCC
TTATGAGATTTATAATGGTTACATCTGTGATATCACTTATACTGCTTGTTGTTTATTATTTTTG
TACGCTGTAATCCAGTGCAATTTGCTGGGATCAATGAAGATTATGATGGAACAGGGAAGTTGG
GAAACCTCACGGCTCCTTGCAATGAAAAATGTAG

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AATAAAAAATGGCTTAAAAGAACATTTCCGAACCAAAGGAACCGGTTCCNGCCTTAACAAAG
TGGGACATTGGCCNTCAAAGGGNCCTCATGGGAACATCNTGTTTTGCGGGGGCANGCACAAT
GGTCAAGGGCTTCCCTAACCGTTTGCANAAGNAGTTAANCAGCATGTGTCCCAATGNCCCCCG
CAGGTAAACGTGCTGCCTGAAANAGCCAGTCCGTGTGGACCGGGGCTCCATCCTGGCCTCAT
CAGGGTTTTCCAACCATTGTGGGTCCACCGCTTTGAGTACGAGGAACACGGGCCTTTCTTCCTC
TACAGAAGGTGTTNTGAACGGCGACAACCTTTGGCGTCGTGAGATTCTTGTGAGGCGTCTGCCT
GGAAGCCGGCAGCAATTTTTGCTTCTTTAAAGAGAAAAAGAAGGCTAGGGACTCAGATTCCTG
GATTCTGAGATCCAGACCAGCTCCTCCAGACCTNTCCAGAAGAAGCCATGGGAACCCCTCGT
ATCCAGCATTGTGCTGATCCTCCTGGTCCTAGGAGCCTCCCTCCTGACCTCGGGCCTAGAGCTG
TATTGTCAAAGGGTCTGTCCATGACTGTGGAAGCAGATCCAGCCAATATGTTTAACTGGACC
ACAGAGGAAGTGAGACTTGTGACAAAGGGGCACTTTGCCAGGAAACCATACTAATAATTAA

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FIGURE 372

GTGCGCATAAAGAGGAGGCGCTTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGCAA
CTCAACTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGG
CATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCT
TGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATATTTGTGGGCATCTG
CCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAGTCCAGCAGGAAAATTCTTCT
GGCGTATTTCACTTCTGATGTTTATAGTATATGCCTTTGAAGTGGCATCTTGTATCACAGCAGC
AACACAACGAGACTTTTTTAC

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FIGURE 373

TTTAAGGATGTTGCCATGNACCATGTTTTTTCAAATTTGCTTTTCATTTGGGNCCGTTTTGGA
GTCTTTGACCGCTANGATGGTTTTTCGTCGTCTGGGAACTTGATCAGACTTTGAAGATTNTAAA
TTTGGAAGATCAGGGTGCACTTTTGAGTGATGATGAAATATTTGTAGCCGCCAAATTGGGAAA
CATACCTGCATGGCCTTGCGCAAATACTTTGAGGCTCACCTGGCCATTAAATTGGAACAAGTG
AAGCAGTCACTTCAGAGGACTGAGGGTGGCATTNTTGTCCACCCACAACCCCGTACAAGGCA
TGCTCATATACTCATGAACAGATTGTGGAAATGATGGAATTTTTTGATAGAATATGGCCCAGCG
CAGCTATATTGGGAACCAGCTGAAGTTTTCTCAAACCTTNTTGTGTGCAACTCTTGTTGCAG
CTTATTTNTATTGCCTGCAATTGGAAGACCTATTATGCAAGGAATGACACTGTGCGCTTTGCT
TTGGATGTCCTGGCTATTCTTACTGTGGTGCCAAAAATCCAGCTCCAGTTGGCAGAATCAGTG

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FIGURE 374

AAATTTTTTAAAAAACTCCTTAATAGGCCCTTTTTTTTTTTAACCTGAAAGTTGACTACCTA
CCTTTCAGGAAATATATATTTTTTGGGTTTAGCTAGGTTGACTTTCTTCTAGAAATGGAAAAG
ATGGCACCCCTCGGTACCAAAGTGCTGGGACTCTGCACTATGCTTGTGTGTATGTGTGTGCCTC
TGTCTTGCTCTCTTATCTCCCAGCAGTGAGACATTGGACGTGTTTGCTCATGAAGATGCAGTA
TATGGCTTGTCTGTGAGCCCAGTGAATGACAACATTTTTTGCCAGTTC

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FIGURE 375

TTTTTTTTGGGAGGAGGAATGTNCATT CAGGGAGTAGCTTTTTGGGAAAAATTNTNTAGGGCTA
CANACAGTCATGGGTGACTTTCTTTCTGCTGTGAAAAC TCCAGAGTNTCTTTAGGGATTTTC
CCTAAGGTGACCACCAGGCACACCTCAGTNTTTTTGACCCAGAGCCTGAAAAC TGTTTTCANT
GGGTTCCACCAGTCCCAGCAAAATCCTCTTTGTATTTATTTTGCTAAGTTATTGGGGTTTTGC
TTACATCTCATGATTGATATAATACCAAAGTTCTATAGCCTTNTCTTG CAGTATTTGGATTTG
CTTGAAACCGGGAAAAC TGTTCCCATTAGGCTTGTTAATGTCAGAGTGACACTATTATGAATC
TTTCTCTCCCTTTCCCTCGGCCTGTTTCTTCTCTCTTTCTCCTTCAAAC TTGCTCTGCAGCTAA
GGAAGGTGAGTCTACTTTCCCTGAGGCTTTGGGGTCAGAGTATATGTTGTTTGGAGAAAGAGG
GCAATCAGGACTNTTCTGGGACCCAGATGAGTTCTTCACTAGCCCTTNTGAA

FIGURE 376

AAATGTTACCCTATCCTCGGANAAGGGTTTGAATCCCNCTGATGTGTGTGGATCCATTTTGGT
GGTGNCAATGATTCTCTCGTCCTATTTTATTAACTTCATCTACCTTGCAAGAGCACAAAAAA
CCATGCTAACTTTAACTTTGGATGTGCAATTACATTCCTCCTTGTTGCAGGGACATTTTTTCC
ANANAGNTCCAATCCTGGTTAATCCGAAGCCAAAGAGAGTGTTTCTTCAGCATATGACTAGAA
CATTCCATGACTTGGAAGGAAATGCAGTTAAACGGGACTCTGGAATATGGATCAATGGGTTTG
ATTATACTGGAATTTCTCACATAACCCCTCACATTCCTGAGATCAATGATAGTATCCGAGCTC
ACTGTGAGGAGAATGCACCTCTTTGTGGTTTTCTTGGTATCTTCCAGTGCACTTTCTGATCA
GGAAAACTGGTATCTTCCTGCCCCAGAAGTTTCTCCAAGAAATCCTCCTCATTTCCG

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FIGURE 377

TTTGACTGGGTGTAAGAATATGCTGTTCCAGCAGACCAAGGATGGCATTGGGAAATCTGCNTN
TGGGGTAGGCACATCTTCATGGGCTATTTGGAAAGTGAGACTTGAAACTACAGAGGCCATCGA
TGATGAAGGCTGGTTAACTCTGGGGATTTGGGCCAGCTGGACGGTNTGGGTTTCCTCTATGT
CACCGGCCACATCAAAGAAATCCTTATCACTGCTGGTGGTGAAAATGTGCCCCCATTCCTGT
TGAGACCTTGGTTAAGAAGAAGATCCCCATCATTAGTAACGCCATGTTAGTAGGAGATAAACT
GAAGTTTCTGAGCATGTTGCTGACGCTGAAGTGTGAGATGAATCAGATGAGCGGAGAACCTCT
GGACAAGCTGAACTTCGAGGCCATCAACTTCTGTCGGGGTNTGGGCAGCCAGGCATCCACCGT
GACTGAGATTGTGAAGCAGCAAGACCCCCTGGTNTACAAGGCCATCCAGCAAGGCATCAATGC
TGTGAACCAGGAAGCCATGAACAATGCACAGAGGATTGAAAAGTGGGTCATCTTGGAGAAGGA
CTTTTCCATCTATGGTGGAGAGCTAGGTCCAATGATGAAACTTAA

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FIGURE 378

GTGGAGGAAGAAGACATTATACAAAACAAATTTAGAACTGGGATCATGAGTGGAAAAACAAA
GGCAAGAAGGGCTGCCATGTTTTTTAGACGTTGCTCTGAAGACGCCAGCGGTAGCGCCAGTGG
CAATGCTTTGTTATCAGAGGACGAAAATCCTGATGCGAATGGGGTAACTCGATCATGGAAGAT
TATTNTAAGTACAATGCTTACACTGACTTTTCTTCTTGTAGGACTCCTAAATCATCAGTGGCT
TAAAGAAACAGATG TTCCTCAGAAATCCAG

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FIGURE 379

AGCCAAAATCCTTGGCCAAATTTNGCATTTCCAANTCCGGAGGCCAAGAAAGGAAGAAAGTTC
CCCAGGTNGAAAANCAAACCTTGGATTTTCAGCAATATGGATTTATTAATCAAATGTGGTTACC
ATTTGGGCCCTTCCGGGGGATTTTAAGTACTTTCCATACCTAGCTNNTATACATACTATTAT
TCTCATGGCAGTAGCAACTTTTGGTTCAAATATCCCAAAACATGCTCAAAGTAGAACATTTT
GTTTCAATATTAGGAAAGTGCTTTGAATCCCCTTGGACGACAAAAGCGTTGTCTGAGACAGCA
TGCGAAGACTCAGAGGAAAACAAGCAGAGAATAACAGGTGCCAGACTCTACCAAAGCATGTT
TCTACCAGCAGTGATGAAGGGAGCCCCAGTGCCAGTACACCAATGATCAATAAACTGGCTTT
AAATTTTTCAGCTGAGAAGCCTGTGATTGAAGTTCCCAGCATGACAATCCTGGATAAAAAGGAT
GGAGAGCAGGCCAAAGCCCTGTTTGAGAAAGTGAGGAAGTTCCGTGCCCATGTGGAAGATAGT
GACTTGATCTATAAACTCTATGTGGTCCAAACAGTTATCAAAACAGCCAAGTTCATTTTTATT
CTCTGCTATACAGCGAACTTTGTCAACGCAATCAGCTTTGAACACGTCTG

FIGURE 380

CGGATCCTTTAAAAATCCCTGACCTNGACCCAAGGGTCCGGTAAAAATCAATTTGTNTTACCCAA
AGACCAATTTTTTGACATATCTTGAATAGGATGNCTATAAAATTATGACTTTTAAATTGTTGTAA
TTTTTGTAATAATTATCTGANATTTTTATTTTTATGNATTTTCGTAAGTAGTTTAGAGATAGTC
ACATTTTAAAAATCTAAGATCAAGCAAATGAAGCTTATTTTTATGTATTCATAGTATAAAAGC
CTTCAGTAAATAGGTAATATTTTTGTTTTATTCTAGAAAACAGCTCCTTGAACACAGTGAGCT
GGCTTTTCACACATTGCAGTTGTTAGTGTCTTACTGCCCTTGCCATTTTAATTATGAGGCTAAA
GATGTTTTTGACACCGCACATGTGTGTTATGGCTTCCTTGATATGCTCTCGACAGCTCTTTGG
CTGGCTTTTTCGCAGAGTTCGTTTTGAGAAGGTTATCTTTGGCATTTTAACAGTGATGTCAAT
ACAAGGTTATGCAAACCTCCGTAATCAATGGAGCATAATAGGAGAATTTAATAATTTGCCTCA
GGAAGAACTTTTACAGTGGATCAAATACAGTACCACATCAGATGCTGTCTTTGCAGGTGCCAT
GCCTACAATGGCAAGCATCAAGCTGTCTAC

FIGURE 381

GAATAAGTTGGGATTTTTNAGCAAGGATTCCAATNTGATTCTTAAAAAAGGAGTTAGCCATAA
AGCCAGTGGTTTTAATTAGATTCAGATTTGATTTTTTAAATTTTACGGGTTTCAGNTTCAGGGA
ATGCTACCCNCAAAATGAGATTTCACTACTATATACCAGTGAAATTTCTACTCTCANATTTTC
TGTAATGTCATTTTTTCATAGTTAGGTTTTAGAAAGTATCTAATCAGGTTGTGATGGTCAAATA
AAGGGTTCAAACACATTTCTATTTTCTGNTTCAATAAATATTTTTTATATTGCTTATTCTTAT
CTATCTTTACCTAATTTCTTCCTATCTTTTTTCGNTAACTTTCTTTTTTTTTTATTTTCTTCTAA
TGAAGATTCTGCTTTCTTCATCTAAACCTGTCCCAAAAACCTATGTACCAAACTTGGCAAGG
GTGATGTAAAGGATAAGTTTGAAGCCATGCAGAGAGCCAGGGAAGAAAGAAATCAAAGGAGAT
CTAGAGACGAAAAACAAAGAAGAAAAGAACAATATATTAGAGAGAGAGAATGGAACAGGAGAA
AGCAGGAGGTTATTTTATTTTACTTTATTCTCGTGAAAATATTTGTTTGCATTTTTTTCATTTA
AATTGTATTTATTACATTAAC

FIGURE 382

GTCCATGGAGCTGGTGGTCAAGGTGGACAGGGGCGGTGGTGATGGCGCAGTTTGACACTGAAT
ACCAGCGCCTAGAGGCCTCCTATAGTGATTCACCCCCAGGGGAGGAGGACCTGTTGGTGCACG
TCGCCGAGGGGAGCAAGTCACCTTGGCACCATATTGAAAACCTTGACCTCTTCTTCTCTCGAG
TTTATAATCTGCACCAGAAGAATGGCTTCACATGTATGCTCATCGGGGAGATCTTTGAGCTCA
TGCAGTTCCTCTTTGTGGTTGCCTTCACTACCTTCCTGGTCAGCTGCGTGGACTATGACATCC
TATTTGCCAACAAGATGGTGAACCACAGTNTTCACCCTACTGAACCCGTCAAGGTCACTCTGC
CAGACGCCTTTTTGCCTGC

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FIGURE 383

GGATGGGAAGGATCGATTAAAGGATTGGCTTTTGGAACTTACTGGTGGGAATAAGGTTGGC
CTTGTGCAAAGTCCCCAAGGCNTGACATTAGTTTGCTGGCAAGGCAATTGATTCCTCNTTTCA
ACATCGCTTATGCAGCTTTCTGTTCTTCGGTAATCTATGAATTTTGGATCGTGTCATCAAAT
GTCCATTGGTTCCTTCTTCCTGGTGAGTGCTCTGCTGATCAACGTTCTGAAAGTGAGCCCATT
CAACAACGGTCAACTGGTCATGGGATCTTTCGTCAAGAATGAGTTTTCGGCCCCCTCCTACCT
TATGGGCTATAATAAATCCTTGAGTGTGGTGGCAACCACAACCTTTTCTGACTGGGATTATTCA
GCTAATAATGGGCGTATTGGGTTTGGGCTTCATTGCCACTTACCTTCCGGAGTNTGCAATGAG
TGCTTACCTGGCTGCTGTGGCACTTCATATCATGCTGTCCCAGCTGACTTTCATCTTTGGGAT
TATGATTAGTTTCCATGCCGGTCCCATCTCCTTCTTCTATGACATAATTAATTACTGTGTAGC
TCTCCC

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FIGURE 384

TGTTTATGTCACCTACCTTCNCCTTTTTTAAGTTTTGTCCNAGCAAACCTTGCAGAATTTTAGA
TGAACATGGNAAAAATGTTACAATCTGTGGGCCTGACTTTGGTCAAGACCTGTACANAGATGA
AAACTTGGTGA CTATACTGGGGACCAGCTTCTTAATCGGATGTATCTTGTATTCATGTTTGAC
ATCAACAACAAGATCGAGTTCTGACGCTCTGCAGGGGCGATACGCAGCTCCTGAATTGGAGAT
AGCTCGCTGTTGTTTTTGCTTCAGTCCTGGTGGAGAGGACACTGAAGAGCAGCAGCCGGGGAA
GGAGGGACCACGGGTCATTTATGACGAGAAGAAAGGCACCGTCTACATCTACTCCTACTTCCA
CTTCGTGTTCTTCCTAGCTTCCCTGTATGTGATGATGACCGTCACCAACTGGTTCAACTACGA
AAGTGCCAACATCGAGAGCTTCTTCAGCGGGAGCTGGTCCATCTTNTGGGTCAAGATGGCCTC
CTGCTGGATATGCGTGCTGTTGTACCTGTGTACGCTGGTCGCTCCCCCTCTGCTGCCC

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FIGURE 385

AACAGGGGGGCGCTTGNTCCAGAAATGTTTCCCCTGGGGAAAGTGGCATCACTTAATGACAT
TCAGCCAACTTACNGAATCCTGAAACCATGGTGGAATGTGTTTATGGATTACCTAGCTGTTGT
TATGTTAATGGTAGCCATCTTTGCAGGAACCATGCAACTTTACCAAAGATCAGGTGGTCTGTT
TGCCAGTATTGCCATCTCCTGTAAATTCAAAGGCACATACACCACCAGGAAATGCCGAGGTCA
CCACCAACATCCCAAAGATGGAAGCAGCCACCAACCAAGACCAAGATGGGCGGACAACAAACG
ACATTTCCCTTTGGGACATCTGCTGTGACACCTGACATACCTCTCAGAGCCACATATCCTCGCA
CAGATTTCGCACTTCCAAATCAGGAGGCAAAGAAAGAGAAGAAAGATCCAACAGGTCGAAAAA
CAAACCTTGATTTTTCAGCAATATGTATTTATTAATCAAATGTGTTACCATCTGGCCCTTCCGT
GGTATTCTAAGTACTTTCCATACCTAGCTCTTATACATACTATTATTCTCATGGTCAG

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FIGURE 386

ATCAAGTTGGTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCCTG
TTAAGTGGTGTACTGGTGATGACCGGAAGCATGGCCTTGATTGTTTTGGATTGGGTACACAAT
GCACCTGGAGGTGGCCATTAATTGGCACCACCTCAAACCTCAAACCTCAGTCCATCTGATGCCAGT
GTTGAGTAAACTCAACTACTATGAAATTTACCTAATGTTTTTCAGTTTCACTTCCTTTTGAAG
TGCAGATTCCTCG

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FIGURE 387

TGGATTTAATGGGGGGAAAGGGCGGAAAANGGNCAAGGATCCAAACTGGNGAATTTGGTGATT
TTCGGGTCCCTNTCCGCTTTCCGGCCGGNCAGCGCTGCCAAGGGTATATTTCCCTTTTTTCNGA
TCCTGCAACAAGCCTCTTTAAACTGTTTAAATGAGAATGTCCTTGGNTCANAGAGTACTACTC
ACCTGGCTTTTCACACTACTCTTCTTGANCATGNTGGTGTTGAAANGGATGAGAAAGNCCTTG
GACTGGTTCCTCATATTCATTCCAGTTGGAAANTTGANACTATCCTTCTTGTCCTGCTGATTG
TGAAAATGGNTGGGCGGTGTAAGTCTGGCTTTGACCCTCGACATGGATCACACAATATTAAAA
AAAAAGCCTGGTACCTCATTGCAATGTTACTTAAATTAGCCTTTTGCCTCGCACTCTGNGGTA
AACTGGAACAGTTTAC

FIGURE 388

GTTAGGTGATCCAGGTTTTGGGGTTTTTGCAACCCTTGGGGTCATTGGGCCCTTNAAATTAAT
CTTCGGGGGGGGTCCNGCCATGGNCAGCCAAACATTTTTGGGNACATACCATTTGGTTCTGT
AATCGGGGCGTTTTTCAGTTTCCTGTGTAAAGGGCNTGGGCATTGCTATCAAGGANCTGTTTGC
AGGGAAGCNTGTGNTGCGGCATCCCCCTGGNTTGGATTCTGCTGNTGAGCCTCATCGTCTGTGT
GAGCACNCAGATTAATTACNTAAATAGGGCCCTGGATATATTCAACACTTCCATTGTGACTCC
AATATATTATGATTCTTTACAACATCAGTTTTAACTTGTTTCAGCTATTCTTTTTAAGGAGTGG
CAAGATATGCCTGTTGACGATGTCATTGGTACTTTGAGTGGCTTCTTTACAATCATTGTGGGG
ATATTCTTGTTGCATGCCTTTAAAGACGTCAGCTTTAGTCTAGCAAGTCTGCCTGTGTCTTTT
CGAAAAGACGAGAAAGCAATGAATGGCAATCTCTCTAATATGTATGAAGTTCTTAATAATAAT
GAAGAAAGCTTAACCTGTGGAATCGAACAACACACTGGTGAAAATGTCTC

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FIGURE 389

AAAAAAAAAAAAAAGAATNTGACTATATACCATGGAAAAGCCNCCACTNTGCCACTTAAATA
AACATCAGGATCAGAGATTCCAAGAGGACAATNTGCATCAAGTNTTCACCAAGTGTTTTTTAA
GCGAAATAATGAAATAGGGAGCAGAAATATGCCTGTTGCCCATAGAAACGAGGTNTATTNTTGT
CCTCAATTAGGCTTTTTTTTTTNTTCATAGTTACACCAGAACTAAAGTAAAAGTGGTTTTTCTG
TTCTTTCTACTTCTCCCCATGAAATGGGCATATCATNTCAACACTTCACTCCAAGTCGCCACG
GGCAACCTTATGACCCTAGGTCCTCCACCCCTAATGTATCATCATTGCCA

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FIGURE 390

AGGGCGCCCATTTTCGAGCCCAAGTTTCCAGTTCGGGTTTCCGGGCTCAGAATTTTCCAGGAGT
GGGTTCTTGGGCAGTGGCTGTGGAGCAGGAATGGCGCAGTAGAGGGTTACTGTTTCTCGGCCG
CCTTGAGCTGTACCTTTTTTAGTGTCTCCTGCCTCCTTTTCTCCGCCTTCAGCCGGGCGCTGCGAG
AGCCCTACATGGACGAGATNTTCCACCTGCCTCAGGCGCAGCGNTACTGTGAGGGCCATTTCT
CCCTTTCCCAGTGGGATCCCATGATTACTACATTACCTGGCTTGTACCTGGTGTGTCAGTTGGAG
TGGTCAAACCTGCCATTTGGATCTTTGGATGGTCTGAACATGTTGTCTGCTCCATTGGGATGC
TCAGATTTGTTAATCTTCTCTTCAGTGTTGGCAACTTCTATTTACTATATTGCTTTTCCACAA

FIGURE 391

CCAGTTTTTCATGGACATAGAAAATTCCAAAAGAATAATAATATTGAATTTAAATTTGGGGGG
GTTAAAAAANAAAACTTAACCTTTATAAAATTATTTATTNTATTTTAAGCCTTNTATCATATT
TTCCCCATCCAATTGTTTGGTTTCAGTGGTCCAGCTTTTATTTACAGGCATATAAAAGAAATT
GTGAGATGTTTTGCAAGCTTTTTTTTACTTTGAGAGCTTTTAATTTGTATGTTTTTATGTGGA
TGAAGAGCATTTTTTTATGTTTTTGTGCAATAGGTTCCAATATGCATTTATTAGACATCTGTTT
AAATGGTAATGTAGCATTATTTTTGCTAAATTGAAAGGGAACATAGATGGAATTCCAAAATAT
GTACATTCAGCTGTTTGGTTTTTTCGTTTTTTCATTGTTATTATTGTGAGAATGCTGTTATTGGG
GTTGTGTGTGAGTGCCCGTCAGCCAGTGATGCCTCGGGCCACGCTGTGGGGCCACCTCAGTCC
TGCTGGGTCCTGGTGCCTTGGACCCACGTGCTTGTGGCCAGGCTGCCCCTGGGCGGGGCCAT
GTGGCCTCAGACCACAAGAG

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FIGURE 392

CGTCTCCAGTCTACCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCATCATTTCGTGAAG
GGGTTTCTTTTGCGGGACAGAGGATCAGATGTTGAGAGTTTGGACAACTCATGAAAACCAA
AATATACCTGAAGCTCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTTTCTGAAAGCT
CAAGCACTCACACAAAAACCAATGATTCCCTAAGGCGAACCCGTCTGATTCTCTTCGTTCTG
CTGCTATTCGGCATTATGGAATTCTAAAAACCCATTTTATCTGTCCGCTTCCGGACAACA
ACAGGGCTTGATTCTGCAGTAGATCCTGTCCAGATGAAAAATGTCACCTTTGAACATGTTAAA
GGGGTGGAGGAAGCTAAACAAGAATTACAGGAAGTTGTTGAATTCTTGAAAAATCCCGAACCC
CTT

FIGURE 393

GGTCAAGTTCAGTAGTGGTCTCAATAAGTGTGTTAACTTGCTTTGGGTGATTGCAATCAGCA
TGGGATTTGGCCATTTCTATGGCCCAATTCANATTCAGAAGCGTCNACAGTTAGTCAGAAAGA
TACATGAAGATGAATTGAATGATATGAAGGATTATCTTTCCAGTGTC AACAGGAACAANAAT
CTTTTATAGATTATAAGTCATTGAAAGAAAATCTTGCAAGGTGTTGGACACCTANTGAAGCAG
AGAAGATGTCCTTTGAAACTCAGGAACCCCTT

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FIGURE 394

GCAGTGGGTGATCATAGGCACTAACCCTCAAACCTCCTGAAGTTCAANAGATTGTCCCATGTCA
GCCTCCCAAGTAGCTGGGACTATAGACAGNGCCATCATGCCCAGCTAATTATTTTTTTAATT
TTANAGAAGAGTCTTGCTAGGTTCCCCAGGCTGGTCTCGAACTCCTGACCTCAAATAATCCTC
CCNCCCTCAACCTCTGAAGTAGCTGCAATGACAGGTGCAAGCCCACTGTGTTTGGCTAGAGTC
TCATGTTTTTCTAATTCCAAAAAGTTCCATAATGATTTTGATTTCAGATTGTATTGAGTTTAC
ACATTAATTTAAGAAGTGACATCTTCATAATACTAACTTTCCCCAAAAAGAAACAGGGTATGT
TTTTCCATTTATATGAGTGGGGTTTTTTTTTGTTTTGTTTTTACGTTTTGTAGTTTTCTTCATA
TAGGTTTTGCCAGAGGTTCCCAAACCTTCTTGGTTCATGG

FIGURE 395

AGCATGGGAAAGGTAGGAACCNAGGGAAAGGGGCCCCCGAGCGCAAGGTGTCGGTGCCCACC
TTCAGNTGGAGGAGATTCAAAAGCATAACCTGCGCACCGACAGGTGGCTGGTCATTGACCGCA
AGGTTTACAACATCACCAAATGGTCCATCCAGCACCCGGGGGGCCAGCGGGTCATCGGGCACT
ACGCTGGAGAAGATGCAACGGATGCCTTCCGCGCCTTCCACCCTGACCTGGAATTCGTGGGCA
AGTTCTTGAAACCCCTGCTGATTGGTGAACTGGCCCCGGAGGAGCCCAGCCAGGACCACGGCA
AGAACTCAAAGATCACTGAGGACTTCCGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTGT
TCAAGACCAACCACGTGTTCTTCCTCCTCCTCCTGGCCCACATCATCGCCCTGGAGAGCATTG
CATGGTTCACTGTCTTTTACTTTGGCAATGGNTGGATTCTACCTCATCACGGCCTTTGTCC
TTGC

FIGURE 396

AATGGTACAACAGTCCCTTAATGGTTGCCNCAATGGCNTGAAATCCAAGNATTACAGACTTTT
GTGATAAGGTNAAGCTTGGGGCATCGTCCTAGAAACGGTGGCCACAAGTGGGGTTGTGACCTC
GGTGGCCTTCATGCTCACTCTCCCGATCCTCGTNTGCAAGGTGCAGGACTCCAACAGGCGAAA
AATGCTGCCTACTCAGTTTCTCTTCCTCCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGC
CTTCATCATCGGACTGGACGGGAGCACAGGGCCCACACGCTTCTTCCTCTTTGGGATCCTCTT
TTCCATCTGCTTCTCCTGCCTGCTGGCTCATGCTGTGTCAGTCTGACCAAGCTCGTCCGGGGGAG
GAAGCCCCTTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGCTTCAGCCTAGTCCAGGATGT
TATCGCTATTGAATATATTGTCCTGACCATGAATAGGACCAACGTCAATGTCTTTTCTGAGCT
TTCCGCTCCTCGTCG

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FIGURE 397

GACCTCGACCCCAGGGTCCGGTTNTACTTTGTCCTGCCTGCTGCTGGGGTCCCTGGGTCTATG
TGCATCCTCTTCACTATCTACTGGATGCAGTANTGGTGTGGGGCTTTGCCTGGAATGGCAGCA
TTTACATGTTCAACTGGCACCCAGTGCTTATGGTTGCTGGCATGGTGGTATTCTATGGAGGTG
CGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGGCCCCAAACTGCCCTGGAAACTCCTCC
ATGCAGCGCTGCACCTGATGGCCTTCGTCCTCACTGTTGTGGGGCTGGTTGCTGTCTTTACGT
TTCACAACCATGGAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACCCTG
TCTTCCTCTTCGCCTGCCAGTGGTTCCTGGGGCTTTGCTGTCTTCCTCCTGCCCTGGGCGTCCA
TGTGGCTGCGCAGCCTCCTAAAACCTATCCACGTCTTTTTTGGAGCCGCCATCCTCTCTCTGT
CCATCGCATCCGTCATTTTCGGG

FIGURE 398

AGAGGAGCTGCCGGTGCCTCCTCAGAACATCTCCTGATCGCTACCCAGGACCAGGCACCAAGG
ACAGGGAGTCCCAGGCGCACACCCCCATTCTGGGTCCCCCAGGCCCAGACCCCCACTCTGCC
ACAGGTTGCATCTTGACCTGGTCCTCCTGCAGAAGTGGCCCCTGTGGTCCTGCTCTGAGACTC
GTCCCTGGGCGCCCCCTGCAGCCCCTTTCTATGACTCCATCTGGATTTGGCTGGCTGTGGGGAC
GCGGTCCGAGGGGCGGCCTGGCTCTCAGCGTGGTGGCAGCCAGCTCTCTGGCCACCATGGCAA
ATGCTGAGATCTGAGGGGACAAGGCTCTACAGCCTCAGCCAGGGGGCACTCAGCTGTTGCAGGG
TGTGATGGAGAACAACACTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCTGT
GAGGATTCCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCAC
AAACGGCGGGCAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGGCCCTGAAGCATGCTGTC
CTGGGGCTCTACCTGCTGGTCTTCCTGATTCTTGTGGGCATCTTCATCTTAGCAGTGTCCAGG
CCGCGCAGCTCCCCTGACGACCTGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGC
TTCCGGGACTTGACAGCTGCGGCTGCTGCAGGCTCCGCTGCAAGCGGACCTGACGGAGCAGGTG
TGGAAGGTGCAGGACGC

FIGURE 399

ATCCTGGACTTGACCCAGNGTCCGTTGATTGGAACCGGTGGTCGGCAAAACAAGTCCGCTGG
GCAGCAGGAGNAGCAGNAGGATTATTAAATAACGCAGTTGGACTCTGGCAACTGGGAGTGAAG
AGGAGCCCAACAGCCGAGAAGGGAAGGAGGCANAGGAGGGGGACCAGAAGGACACCCCCGTGC
CCCGAAGACATAAATCCCTGAGTGCCCGGGAGGAGCCTTAACAAGCGCACGGAGCCCTCAAGG
TGCAAAGTTGGCTTTCACAGTGCAAGCCTTTGATTCCCAATGGGGGACTCAGGATCAAGACGA
TCTACCCCTGGTCTCCCGGTTGCCAATATTCAGAAGAAGTATTAACAGAAGACATGATTCTCTT
CCTTCTTCACCTTCTTCCAGTAATACAGTTGGTGTCCACAGTTCCTCTCCTTCCAGCACTAAC
TCAAGCTCAGGTAGCACAGGTAAACGGAGGAGCATATTCCGTACTCCTTCCATTAGCTTCCAC
CATAAGAAGGGGAGTGAGCCTAAGCAAGAGCCTACCAACCAG

FIGURE 400

GGCTTCCCTCGCGCCCCACCGNCCTNTTCCGGAAGGCGGCTCCCTCCCTGCGCAGCCCGGAGC
CCCTGAGATCAGCCTCGAGCAGGCGCCCGAGCGAGACTATCCCTAAACGGGAACGGCGGTGGC
CGACTCGCGAGTGAGGAAAAGAAGGAAAGGGCAGACTGGTTCGCGAAGAGAAGATCCAGGCCTC
AGAGGAGGAGAAAGGCCGGAGCCAGCCGAGCTGTCACGACCGGAGGGGGGACTCGCAGCCTTA
CCAGGGGGGTGATGTTTTACAGGCACTTAAGTATTCATCGAAGAGTCACCCCAGTAGCGGTGA
TCACAGACATGAAAAGATGCGAGACGCCGGAGATCCTTCACCACCAAATAAAATGTTGCGGAG
ATCTGATAGTCCTGAAAACAAATACAGTGACAGCACAGGTCACAGTAAGGCCAAAAATGTGCA
TACTCACAGAGTTAGAGAGAGGGATGGTGGGACCAGTTACTCTCCACAAGAAAATTCACACAA
CCACAGTGCTCTTCATAGTTCAAATTCACATTCTTCTAATCCAAGCAATAACCCAAGC

FIGURE 401

TAACAACCACAGAACTGGANTAGTGGTCCTACAGTAGCTGCAGCTGATACCACTGAACTAA
TTTCCCTGAACTGCTAGCACCACAGCAAATACACNTTCTTTCCCAACAGNTACTTCACCTGC
TCCCCCATAATTAGACACATAGTTCCTCCACAATTCCTACACCTGCTCCCCCATAATTAGT
ACACATAGTTCCTCCACAATTCCTATACCTACTGCTGCAGACAGTGAGTCAACCACAAATGTA
AATTCATTAGCTACCTCTGACATAATCACCGCTTCATCTCCAAATGATGGATTAATCACAATG
GTTCCCTTCTGAAACACAAAGTAACAATGAAATGTCCCCCACCACAGAAGACAATCAATCATCA
GGGCCTCCCCTGGCACCGCTTTATTGGAGACCAGCACCCCTAAACAGCACAGGTCCCAGCAAT
CCTTGCCAAGATGATCCCTGTGCAGATAATTCGTTATGTGTTAAGCTGCATAATACAAGTTTT
TGCCTGTGTTTAGAAGGGTATTACTACAATC

FIGURE 402

CCACAGTATGGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTTCTTTTGTCTGCTGTTG
CTACTAATAGCCTTGGAGATCATGGTTGGTGGTCACTCTCTTTGCTTCAACTTCACTATAAAA
TCATTGTCCAGACCTGGACAGCCCTGGTGTGAAGCGCAGGTCTTCTTGAATAAAAATCTTTTC
CTTCAGTACAACAGTGACAACAACATGGTCAAACCTCTGGGCCTCCTGGGGAAGAAGGTAAAT
GCCACCAGCACTTGGGGAGAATTGACCCAAACGCTGGGAGAAGTGGGGCGAGACCTCAGGATG
CTCCTTTGTGACATCAAACCCAGATAAAGACCAGTGATCCTTCCACTCTGCAAGTCGAGATG
TTTTGTCAACGTGAAGCAGAACGGTGCACTGGTGCATCCTGGCAGTTCGCCACCAATGGAGAG
AAATCCCTCCTCTTTGACGCAATGAACAT

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FIGURE 403

GTCGGGTGGTACGGCCGCTCCCTGCAGGNGAGTTCGTGNACGACGACGTGTGGGCGATCGTGA
ACAAACCCCGACGTGCGGGCCCGCGCCCCGCTCCGTTGGGGCATCTTCACCAACGACTTNTG
GGGCAAGGGCATGGCCGAGAACACCAGCCACAAGTCCTACCGCCGCTTTGCGTCCTCACCTTC
AAGCTAAACATATTTTTGACTGGTATGAACCCATTCTACTTTCATGCAGTAAATATAATTTTA
CACTGCTTAGTGACTCTTGTGCTGATGTACACCTGTGATAAACTGTCTTCAAGAATCGTGGA
CTTGCTTTTGTAACGGCATTGCTTTTTGCTGTACATCCTATTCATACTGAGGCGGTGGCTGGG
ATCGTTGGCAGAGCGGACGTGTTAGCGTGTCTGCTGTTTCTATTGGCCTTTCTCTCGTACAAC
AGGAGTCTGGATCAGGGCTGTGTTGGGGGAAGTTTCCCTTCCACGGTGTCTCCCTTCTTCTTG
CTGCT

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FIGURE 404

CTTGTTTGGTCGGTGGAATATGTTGGGATTTATGTTTGCCTCTGAACAAGTGTCTTGCTCACA
TCGTAAATGACTTTCTCTCCGAAACGCTAAATATTCTTTCCCGCAGGAGCTCATATCCTTATT
TTCCATGACAGATCTTAACGGACAATATATGCAAAAGATATATAAAGATGATAACTAATATAG
TTTACTGAGCCTGATCATTTCGTTAGCTTTCTGGATTATATCAATGACTGCAAGCA
CCTATTATGGTAACTTACGACCTATTTCTCCGTGGCGTTGGCTGTTTTCTGTTGTTGTTTCCTG
TTCTGATCGTCTCTAATGGCCTTAAAAAGAAAAGTCTAGATCACAGTGGGGCTCTAGGAGGGC
TAGTCGTTGGATTTATCCTAAC

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FIGURE 405

AATGCCCCAAGTTAAATACCTCCTCNACCTTTACNTAAGTTGCTCCTTTATTTTTATTTAT
TATTATTATTATTATTATTATTTTTTGAGATGGAGTCTCACTTTGTAACCCAGGNTGGAATGC
AATGGCATGATNTCAGCTCACTGCAACCTCCGCCTCNTGGGTTCAAGCAAGTNTCCTGCCTCA
GCCTCCGAGTAGCTGGGACTACAGGTGCACGCCACCACGCCTGGCTAATTTTTTGTATTTAG
TAGAGACGGGGTTTCACCGTGTTGCCCAGGCTGGTCGCGAACTCCTGAGCTCAGGCAATCCGC
CCACCTCAGCCTCCCAAAGTGTTGGGATTACAGGCATGAGCCACCATGCCCAGCT

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FIGURE 406

GGGCTTGAAAATCTAAATACTTTGAAATTAGAATAATATCTTGTGTTTTAGAGCTTTAAATTT
TCAAATATNTGCTGTCCACACACCCCATTTGGAGGAGGACCTGTGTCACTAACCCAAATTTGTA
GCTGAGAAAACAGAGGCAGAGAGAGGTTAAGTAAAAAACCCCAAGAGAGTTCACCTAATATTG
TGAAGAAAGCAAACCCAGGGTTTCACTAACTTGTCCATGTGTGTATGTGTGTGGCTGCGTTCA
CCCCTGTGTGTGTGTGTACTGTGTGCATGCCTGTGTGTTTGTGCACACCCATGTGTATGTACC
TGCATACACACCCAAGTGTGTGTGTTACCACAACGAAAGCGCAGATTTATTGAAAAGAAAGTG
CACTCCACAGAGTGGGAGCAGGCTAGAGCCAGTGGCTCAGGAGCCTGGTTACAGCATTTTCTG
GAGTTTAAGTGCCCTCCAGAGTTTTCCCATTTG

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FIGURE 407

CAGCCAGGCCAGAGAGGGAGCCGAGCCAGGCCATNTCCAACCATGTCCGANGAGGCCTCGGCC
ATCACTTCCTACGAGAAGTTTCTTAACCCCCGAGNAGCCCTTCCCACCTCCTGGGACCTTCCTC
GCGGGGGGGCACCTGCCCCGAGCAAGGAGCCGGGCTGCCTGGACATCAAGCGACTTCGGGTGCC
AGCTGTCCTCCTGCCATCGCACCGACCCGCTCCACCGCTTCCACACCAACAGGTGGAACCTAA
CTTCTTGTGGAACAAGTGTTGCCAGCTCAGAAGGCAGTGAGGAGCTGTTTTCATCTGTGTCTG
TTGGAGATCAAGATGATTGCTATTCCCTGTTAGATGATCAGGACTTCACTTCTTTTGATTTAT
TTCCTGAGGGGAGTGTCTGCAGTGATGTCTCTTCTTCTATTAGCACTTACTGGGATTGGTCAG
ATAGCGAGTTTGAATGGCAGTTACCAGGCAGTGACATTGCCAGTGGGAGTGATGTACTTTCTG
ATGTCATACCCAGTATTCCAAGTTCACCTTGCCTG

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FIGURE 408

TCAAAAAGGTTGCATTTCNTTTTGCATAAACAGGGACTTTATATAGTTAACTCCCNTTATATAA
ATTCTCCTATAGTAATCTCAAAGAGTATTNTAGACTTCTCAATGCTTTTTTATTGTTGCTGAAA
AGCAAAAAGACTTGCTGTGNAAGTGGAGAAGACTTCAACATCAAAGTGATTTTTTCTACTCTC
CTAGGAATGAAAGGAACACAAAGGGACCCGGAAGCATTTCCTGTCCAGATTGTGTCAAAATCT
CAATTGCCATCTGAGAATAGAGAAGGTAAAGTGCTGTGGACTGGCTGGTTCTGCTGTGTATTT
GGAGACAGTCTTCTGGAGACTGTTTCAGAAGATTTACCTGTCTGCCCTTATTCCTTGCAAAT
GGAGCAGAGTCTAACACAGCAATAATTGGAAGTTGGTTTCAGAAAACCTTTGACTGTTATTTT
AGTCCTTTAGCAATCAATGCATTTAATCTTTCCTGGATGGCTGCCATGTGGACTGCATGCAAA
ATGGACCATTATGTGGCTACTACTGAATTTCTTTGGTCTGT

FIGURE 409

GACATTTATTTTTCATCCATTGCAACCCATTGCCATAAGAACATNCCCATGGCCTTGAAGCGC
TTCACAGCAGCATNGTGGAATGCAGAATTGGAGCCAAGCAATTTTCAAAGCAAGNTTNCTGAA
AATGAAAAAATACTTATATTGAAAACTTTTGTAGCGTTATGGTGAAAATGGAAGATTATC
CTTTTTTGGTTTGNAGAACTTTTAACAACTTGGGCCTTGGAGAGAGAAAAGTAGTTGAGAT
TAATCATGAGGATCTTGGCCACGATCATGTTTCTCATTTAGATATTTTGGCAGTTCAAGAGGG
AAAGCATTTTCACTCACATAACCACCAGCATTCCCATAATCATTTAAATTCAGAAAATCAAAC
TGTGACCAGTGTATCCACAAAAAGAAACCATAAATGTGATCCAGAGAAAGAGACAGTTGAAGT
GTCTGTAAAATCTGATGATAAACATATGCATGACCATAATCACCGCCTACGTCATCACCATCG
TTTGCATCATCATCTTGATCATAACAACACTCACCATTTTCATAATGATTCCATTACTCCCAG
TGAGCGTGGAGCGGCCGC

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FIGURE 410

TACCTATTCCCAGGTTTAATGTTGATTATTTATATTTGAAAAAANTTGATTTGTANAACTGG
GTANATTACTTTCAAATTAATCATTTATTCCTAATTGACCAGGGATGAGTGAGATGTTTATTT
AGAAAACAAATAATTTTAGATAGGAAAATTGAATCTTTAAAAAATAATGGTGATTTAATATAT
CAATGTGTGGTTTTTGTGTGTATGTGTGTAANATTGGAGCATCCAGGAGTGTGCGGTGTGTAT
ATGACCTTATTTTTCTACTGTATCTTAGAGGTTGCCNCTTCCATGGGTATAAACTTAATTGG
ATTTCTCGATTTTTATTTTGTATGCACTTTTACAACTTATGTCATTTTAGGTTGTTTATTA
ATGCCAGTTTTGTATAATAAAATTATTAGAGAAGTTATGAAGGAGGATGGCATGAGTGGGGCG
GCCGN

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FIGURE 411

ACGCAGAGCGTTTTTCATTTTCCACGGGTCTGTCCTTGTCAAAGCACACCCCTCGGTGTCCAGG
TTCNTCATGGGCAAGTGCTCGGGGTGACAAANAAGGCGACATTGACTACAGCACCGTGCTCCT
CGGCATGCTGGTGACGCAGGACGTGCAGCTCGGGCTTTTCATGGCTGTCATGCCGACTCTCAT
ACAGGCGGGCACCAGTGCATCTTCTAGCATTGTCGTGGAAGTTCTCCGAATCCTGGTTTTGAT
TGGTCAGATTCTTTTTTCACTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCT
CATTGGACCCTATTATCGGAAGCTGCACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTT
GGGAATATCTGCCTTTATCTTCTTAATGTTAACGGTCACGGAGCTGCTGGACGTCTCCATGGA
GCTGGGCTGTTTCCTGGCTGGAGCGCTCGTCTCCTCTCAGGGCCCCGTGGTCACCGAGGAGAT
CGCCACCTCCATCGAACCCCC

FIGURE 412

CAGTTTTTTTTATAGTGAATACCAAAAANCATCAGCAANCACTGGACTGTCAACCCAAGGCTTAT
TGATATTTGCGGAGTTGATTTCTGCGATTAAGAGACGTTGGCTCGCCTTCNTCGTGATCATTG
TGAGCCTGGGCTATGGCATTGTGAAGCCTCGTTTAGGAACAGTCATGCACCGGGTGATCGGAC
TGGGGCTTCTATACTTAATCTTTNCAGCTGTTGAAGGCGTGATGAGAGTCATTGGGGGTTCTA
ACCATTTAGCTGTTGTTCTTGATGACATTATTTTAGCAGTTATTGACTCCATTTTTGTGTGGT
TCATTTTTATTAGTTTGGCACAAACTATGAAGACCCTAAGGCTAAGAAAGAACACTGTGAAAT
TTTCATTATATAGACATTTTAAAAATACTCTGATCTTTGCTGTGCTGGCTTCTATAGTGTTTA
TGGGGTGGGCGGCCGC

FIGURE 413

ACGTGGTCTGCCTGTTATTGGAAAGATATATTAAGATCCAGTTCTGGATTNCANCTGTTTATT
TTTTTGGGAAATGCTTNAAAAAGCAGTTTTTTTTATAGTGAATACCAAAACATCAGCAACACTG
GACTGTCAACCCAAGGCTTATTGATATTTGCGGAGTTGATTTCTGCGATTAAGAGGACGTTGG
CTCGCCTTCTCGTGATCATTGTGAGCCTGGGCTATGGCATTGTGAAGCCTCGTTTAGGAACAG
TCATGCACCGGGTGATCGGACTGGGGCTTCTATACTTAATCTTTGCAGCTGTTGAAGGCGTGA
TGAGAGTCATTGGGGGTTCTAACCATTTAGCTGTTGTTCTTGATGACATTATTTTAGCAGTTA
TTGACTCCATTTTTGTGTGGTTCATTTTTATTAGTTTGGCACAACTATGAAGACCCTAAGGC
TAAGAAAGAACACTGTGAAATTTTCATTATATAGACATTTTAAAAATACTCTGATCTTTGCTG
TGCTGGCTTCTATAGTGTTTATGGGGTGGGCGGCCGC

FIGURE 414

ACCGGCCCGTGAGCCGGCCNTGCGCCGGCAGGTCGCGGGACATACTGTGGCGCGTTTTGGGCT
GGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGTATTTA
TAATTTTCAGCAGGATTGATTTGTTTCATCCTATACAGTGGCTGTNTGATTCTTTCAGTGACC
TGTATAGTTCCTATGTAATCTTTTACTTCCTGCTGCTGTCAGTGGTAATAATAATAAGTA
TTTTCAATGTGGAGTTCTATGCAGTTGTGCCTTCTATTCCCTGCTCCAGACTAGCTCTGATAG
GGAAGATCATTATCCTCAGCAACTCATGCACTCATTTATTCATGCTGCAATGGGAATGGTGA
TGGCCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTTTCTTGTGGTTCCCTGCACTG
GTACTAACAGCTTTGGTAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCTTTTTTTCC
TACTGACTGGAGCGGCCGC

FIGURE 415

GNCCACACTGGCCAAACGGGGCATCATGGNCACACTGCCNAAATAGGGCCGCCATGTTGCAGC
AGGATAGTAATGATGACCCTGAAGATGTTTCACTGTTTGATGCGGAAGAGGAGNCGACTAATA
GACCAAAAAAGCCAAAATCAGACATCCAGTAGCATCGTTTTTCCACTTTATTCTTTTCGAGTCA
GTGCAATCATCGTCTATCTTCTCTGTGAGTTGCTCAGCAGCAGCTTTATTACCTGTATGGTGA
CAATTATCTTGTTGTTGTCTGTGACTTTTGGGCAGTGAAGAATGTCACAGGTAGACTAATGG
TTGGCCTACGTTGGTGAATCACATTGATGAAGATGGAAAGAGCCATTGGGTGTTTGAATCTA
GAAAGGAGTCCTCTCAAGAGAATAAACTGTGTCAGAGGCTGAATCAAGAATCTTTTGGTTGG
GACTTATTGCCTGTCCAGTACTGTGGGTGATATTTGCTTTTAGTGCACTCTTCTCCTTCAGAG
TAAAGTGGTTGGCGGTGGTTATCATGGGTGTGGCGGCCGC

FIGURE 416

CAGCAGTCCTTATGATTATGGAGGAAAGTGGAGGNCCCTTATAGCNAAACAGGTATGCTGGNT
ATGACNTATTTCGCAGCAAAGGCAGATTTGTCCCCTCCAGACATGATGCAGCCACAACAGCCAT
ACACCGGGCAGATTTNCCAGCCAACTCAGGCATATACTCCAGCTTCACCTCAGCCTTTNTATG
GAAACAACCTTTGAGGATGAGCCACCTTTATTAGAAGAGTTAGGTATCCAATTTTGACCACATN
TGGCAAAAAACACTAACAGTATTACATCCGTTAAAAGTAGCAGATGGCAGCATCATGAATGAA
ACTGATTTGGCAGGTCCAATGGTTTTTTTGCTTTGGAGCCACATTGCTACTGGCTGGC
AAAATCCAGTTTGGCTATGTATACGGGATCAGTGCAATTGGATGTCTAGGAATGTTTTGTTTA
TTAAACTTAATGAGTATGACAGGTGCGGCCGC

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FIGURE 417

TAATTGTTTATTGGGAAATGGAGGATTAAGNACATTTTCAATTTGTGCATGNAGAGGAAGAC
CTGAAGGTTTCAGCATANTAGCTACAAGACAGANGGGCCCGGCTGTTNAAGGACCAGCTCTCCC
TGGNAAATGTGCACTTTTCAGATCACAAAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGC
ATGATCAAGCTATGGTGGTGCCGACTACAAGCGAATTNCTGTGAAAGTCAATGCCCCATACAA
CAAAATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGTCA
GGCTGAGGGTTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGG
TAAGACCACCACCACCAATTCCAAGGGAGAGGCGGCCGC

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FIGURE 418

AGGTGCTTGTGCTCGAACCCAGTG GTTGGGGCGGTGCTCCTCAAGCTTGTGTGCCTGCTAACCC
NTCNTGNGTCCGGGNTGGCAAGAGTGTGGGACTTTCCCCCTGGCGNCCGTGGACAAACATGATG
GTCAGAAAAGGGGACACGGCGGGTGNTTAGGTGTTATTTGAAAGATGGAGCTTCAAAGGGTGC
CTGGCTGAACCGGTCAAGTATTATTTTTGCGGGAGGTGATAAGTGGTCAGTGGATCCTCGAGT
TTCAATTTCAACATTGAATAAAAGGGACTACAGCCTCCAGATACAGAATGTAGATGTGACAGA
TGATGGCCCATACACGTGTTCTGTTCAGACTCAACATACACCCAGAACAATGCAGGTGCATCT
AACTGTGCAAGTTCCTCCTAAGATATATGACATCTCAAATGATATGACCGTCAATGAAGGAAC
CAACGTCACTCTTACTTGTTTGGCCACTGGGAAACCAGAGCCTTCCATTTCTTGGCGACACAT
CTCCCCATCAGCAAAACCATTTTGAAAATGGACAATATTTGGACATTTATGGAATTACAAGGGA
CCAGGCTGGGGCGGCCGC

FIGURE 419

TAAACTACACTCAGTATACAGTGATAGTGGGATTTGAACACCTGAAGCTCCCCATCAAAGGGA
ATGAACTTCACATGAAGACTTATAACCCTGCCTTCTCCCGGGTTGGAAATCTGGTTCCGGTTT
TTCTTTGTGGTGCTCACCTTCATCGTCACTTGCCTGTTTGCGCATTCCCTCCGGAAATTTTCC
ATGAGAGACTGGGGCATCGAGCAGAAGTGGATGTCTGTTCTCCTGCCTCTGCTGCTACTTTAC
AATGATCCGTTCTTCCCCCTCTCCTTCCTGGTCAACAGCTGGCTCCCAGGGATGCTGGATGAC
CTCTTTTCAGTCCATGTTCCCTGTGCGCCCTGCTGCTCTTCTGGCTGTGCGTGTACCACGGGATT
CGTGTCACAGGGAGAAAGAAAGTGTTTAACTTTCTATTTGCCTAAATTCTTCATTGTTGGACTA
TTGTGGTTGGCTTCTGTTACGCTAGGAATATGGCAAACAGTTAACGAATTACATGATCCAATG
TACCAGTATCGAGTTGATACCGGAAATTTTCAGGGAATGAAGGTCTTCTTCATGGTGGGGGCA
GCGGCCGC

FIGURE 420

GTGTCTGCTCGCCCTCCGACGCTGCTCAGGAATTTGCAAGAACTGAAGTTTTGATT CAGATA
TATTTTGAATTGAAACCAGAGATGTTNTAGAGTTTAGATTCTTTCATTTGATTAAGGTATGGT
CTGAATATGCGTTGCTTGGCAGCTCGGGTCAACTATAAGACTTTGATTATTATCTGCGCACTC
TTCACTTTGGTCACAGTACTTTTGTGGAATAAGTGTTCCAGTGACAAAGCAATCCAGTTTCCA
CGGCGTTTCGAGTAGTGGCTTCAGAGTGGATGGGTTTGAAAAAGAGCAGCAGCATCTGAGAGT
AACAACTATATGAACCACGTGGCCAAACAACAGTCTGAGGAAGCATTCCCTCAGGAACAGCAG
AAAGCACCCCCTGTTGTTGGGGGCTTCAATAGCAATGTGGGAAGTAAGGTGTTAGGGCTCAA
TATGAAGAAATTGACTGTCTCATAAATGATGAACACACAATTAAAGGGAGACGAGAGGGGAAC
GAAGTCTTCTTCCATTCACTTGGGTGAGAAATATTTTGATGTTTATGGAAAGGTGGTGGCG
GCCGC

FIGURE 421

AGGCTCCCGTGTCTGCTCGCCCTCCGACGCTGCTCAGGAATTTGACAAGAACTGAAGTTTTG
ATTCAGATATATTTTGAATTGAAACCAGAGATGTTCTAGAGTTTAGATTCTTTCATTTGATTA
AGGTATGGTCTGAATATGCGTTGCTTGGCAGCTCGGGTCAACTATAAGGCTTTGATTATTATC
TGCGCACTCTTCACTTTGGTCAAGTACTTTTGTGGAATAAGTGTTCCAGTGACAAAGCAATC
CAGTTTCCACGGCGTTTCGAGTAGTGGCTTCAGAGTGGATGGGTTTGAAAAAAGAGCAGCAGCA
TCTGAGAGTAACAACCTATATGAACCACGTGGCCAAACAACAGTCTGAGGAAGCATTCCCTCAG
GAACAGCAGAAAGCACCCCCTGTTGTTGGGGGCTTCAATAGCAATGTGGGAAGTAAGGTGTTA
GGGCTCAAATATGAAGAAATTGACTGTCTCATAAATGATGAACACACAATTAAAGGGAGACGA
GAGGGGAACGAAGTCTTCTTCCATTCACTTGGGTTGAGAAATATTTTGATGTTTATGGAAAG
GTGGGGGCGGCCGC

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FIGURE 422

TTCTTTTTTTTCCCCNGCAATTTTTTCAGTGAAANACATGGAGTCTTTCATCTTGGAGAGTT
GTCAGAGTCAAGATTTTGCTGTTGTAGCCAGTGCTTTAAACAATTACAAAGACTTTCTAGG
AGAGGAAGAGAGNCTGAGGGAAGAAGAGATACAGAAAAAGAAAATGNCAGGATTGAACCTGGA
AACTCACAGAATCTCTGACTCATGCTGGAAATGTNTTTGGGTACCTCTTGCCTTTTNTGTGTT
GGCGGCGGCCGC

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FIGURE 423

TGAAAGGACCCCTAGTTCCCCTGGCAAATGNTTTTNTTCAATCCCCCACTTCATTTTCCTTAA
GAGCCATTCCAAGTNTCTTCCTTTNTCGATACCCCAACCAGCTCACATCCCACTCAAGGGGTG
AGATGCCCTCCTCACCATTGAAGAGATCAAGCCCCCAGGGGGGAACCAGCTCAACTTCCCCCT
CTGTCTCTCCGAAGAGCNTCCTGTTTGAAAACTCGAGGCAGCTGTACCCCGTGCGAAGTTCTT
GCTCCCGTCTCCCCATGTCTTCCAGGATTTTCCTTCATAGTGGGGATTACTCGCTAACCTTTC
CTTCCTCACCTACTTCCCCTTTTCTTCAGCTTTCACCGTGTTTAAATCTTCTAATAATTCTT
TTTATGACATCTTGTTTTTCAAGCTCTTCTCCAGTGATCCCTCCACTTCTCCAATGGCCCTTT
TCACTAAACCTCCAAATTTGTCTTTGCTGACATTTATTGAGCTGCTATTACATGTTCTAAATG
CTTTACTTGTCGTATTTAATCCTAACAACAACCTACAAGGTAGGCCTTGCTATTATCTCCATT
TTATAGTTGAAGAACTGAGGCTGCCGCGGCCGC

FIGURE 424

TATCGGCACATTGGCAAAGACAACATTCAGGCCCAATGGCCCACAAATTGGTCCGCCCAATGC
CATNTGNAAAAGGNTTCACTGCAAATTACAAAAGCATCCNTNATGAAAAGAGATTGGAAAGG
CCTCTCCAAGCAACTGGACTGGGATGTTCTGAAGCATTTCAGCGCTGGTTCGCAAAGACGCAATC
AGGANAAGCCCAAGCACGGCTGACGAGGTTCTGTGAGAGCATGTGGANATTTTCATTTTACCT
TTATGTATTTACCTACGGAGTCAGATTCCTGAAAAAGACCCCCTGGTTGTGGAATANGAGGCA
TTGNTGGTACAACCTACCCCTATCAGCCACTCACAACTGACCTTCACTACTATTACATCCTGGA
GCTGTCGTTTTATTGGTCTTTGATGTTTTCTCAGTTCNCTGATATCAAAGAAAGGACTTTGG
CATTATGTTCTGCACTACCNTGTATCTATTTTCTTGATTACCTTTTCATATGTCAACAATAT
GGCCCGAGTAGGAACGCTGGTCCTTTGTCTTCATGATTCAGCTGATGCTCTTCTGGAGGCTGC
GGCCGC

FIGURE 425

ATTTTTTGAAATTAATGCNTGAGCTTTATTTTGTTTAATTGTTATGCCCACTGGATTGGGACA
AGCATCACCTCTGAATTTTGAAGACCTTAATGTGTGTTAGCCATTGNAAGCTACTCAAGTGC
TGTGCAAGAGTCATACCCACATCCCTTTGATCAAATTTACTACACGAGCTGCACTGACATTCT
AAACTGGTTTAAATGCACGCGGCACAGAGTCAGCTATCGGACAGCCTATCGACATGGGGAGAA
GACTATGACAGGCGCAAGTCTCAGTGTTGTCCTGGATTTTATGAAAGCGGGGAAAATGTGTGTC
CCCCACTGTGCTGATAAATGTGTCCATGGTCGCTGTATTGCTCCAAACACCTGTCAGTGTGAG
CCTGGCTGGGGAGGGACCAACTGCTCCAGTGCCTGCGATGGTGATCACTGGGGTCCCCACTGC
ACCAGCCGGTGCCAGTGCAAAAATGGGGCTCTGTGCAACCCCATCACCGGGGCTTGCCACTGT
GCTGCGGGCTTCCGGGGCTGGCGCTGCGAGGACCGCTGTGAGCAGGGCACCTATGGTAACGAC
TGTCATCAGAGATGCCAATGCCAGAATGGAGCCACCTGCGACCACATCACGGGGCTGGCGGCCGC

TTTTCAATGAAAAAAGAATCCCAAAAAAAAAAAGTTGTCAGCCTCATTTGTGCGTCATCCCTT
ATTTTCCTGGGATCTCAGGACCTCTGTCCCTCTCATTTCTCACTTCTGAGATCTGCACATCTT
TTACCCAGGAGCCTCAGAGCTCCTGAGTCTGGTGTCTGCCTATCCCCATCTTCACTGTTAGTC
CTCCTGCAGATTCTGTGTCTCCTTTTCATGTAGGTGCTGGATCCCTGTGTGTGGAGCGGCCGC

Country	Year	Value	Unit
Algeria	1990	1.00	1000
Algeria	1991	1.00	1000
Algeria	1992	1.00	1000
Algeria	1993	1.00	1000
Algeria	1994	1.00	1000
Algeria	1995	1.00	1000
Algeria	1996	1.00	1000
Algeria	1997	1.00	1000
Algeria	1998	1.00	1000
Algeria	1999	1.00	1000
Algeria	2000	1.00	1000
Algeria	2001	1.00	1000
Algeria	2002	1.00	1000
Algeria	2003	1.00	1000
Algeria	2004	1.00	1000
Algeria	2005	1.00	1000
Algeria	2006	1.00	1000
Algeria	2007	1.00	1000
Algeria	2008	1.00	1000
Algeria	2009	1.00	1000
Algeria	2010	1.00	1000
Algeria	2011	1.00	1000
Algeria	2012	1.00	1000
Algeria	2013	1.00	1000
Algeria	2014	1.00	1000
Algeria	2015	1.00	1000
Algeria	2016	1.00	1000
Algeria	2017	1.00	1000
Algeria	2018	1.00	1000
Algeria	2019	1.00	1000
Algeria	2020	1.00	1000
Algeria	2021	1.00	1000
Algeria	2022	1.00	1000
Algeria	2023	1.00	1000
Algeria	2024	1.00	1000
Algeria	2025	1.00	1000
Algeria	2026	1.00	1000
Algeria	2027	1.00	1000
Algeria	2028	1.00	1000
Algeria	2029	1.00	1000
Algeria	2030	1.00	1000
Algeria	2031	1.00	1000
Algeria	2032	1.00	1000
Algeria	2033	1.00	1000
Algeria	2034	1.00	1000
Algeria	2035	1.00	1000
Algeria	2036	1.00	1000
Algeria	2037	1.00	1000
Algeria	2038	1.00	1000
Algeria	2039	1.00	1000
Algeria	2040	1.00	1000
Algeria	2041	1.00	1000
Algeria	2042	1.00	1000
Algeria	2043	1.00	1000
Algeria	2044	1.00	1000
Algeria	2045	1.00	1000
Algeria	2046	1.00	1000
Algeria	2047	1.00	1000
Algeria	2048	1.00	1000
Algeria	2049	1.00	1000
Algeria	2050	1.00	1000
Algeria	2051	1.00	1000
Algeria	2052	1.00	1000
Algeria	2053	1.00	1000
Algeria	2054	1.00	1000
Algeria	2055	1.00	1000
Algeria	2056	1.00	1000
Algeria	2057	1.00	1000
Algeria	2058	1.00	1000
Algeria	2059	1.00	1000
Algeria	2060	1.00	1000
Algeria	2061	1.00	1000
Algeria	2062	1.00	1000
Algeria	2063	1.00	1000
Algeria	2064	1.00	1000
Algeria	2065	1.00	1000
Algeria	2066	1.00	1000
Algeria	2067	1.00	1000
Algeria	2068	1.00	1000
Algeria	2069	1.00	1000
Algeria	2070	1.00	1000
Algeria	2071	1.00	1000
Algeria	2072	1.00	1000
Algeria	2073	1.00	1000
Algeria	2074	1.00	1000
Algeria	2075	1.00	1000
Algeria	2076	1.00	1000
Algeria	2077	1.00	1000

FIGURE 427

ACAAAGTTTCCCAATGACTTGTTAAAAGTCGATGGTGTAGCTCAAGATGGAACCCNCAATGTA
CATTATAACAAAAGTTCACAACGGGCAAAGGACCNTCACATGTGCAAGGAAAATGTGCGGAG
ATTATTGGGCTCACCTTGGGTACNTGAACTACACTCAGTATACAGTGATAGTGGGATTTGAAC
ACCTGAAGCTCCCCATCAAGGGAATGAACTTCACATGGAAGACTTATAACCCTGCCTTCTCCC
GGTTGGAAATCTGGTTCCGGTTTTTCTTTGTGGTGCTCACCTTCATCGTCACTTGCCTGTTTG
CGCATTCCTCCGGAATTTTCCATGAGAGACTGGGGCATCGAGCAGAAGTGGATGTCTGTTT
TCCTGCCTCTGCTGCTACTTTACAATGATCCGTTCTTCCCCCTCTCCTTCCTGGTCAACAGCT
GGCTCCCAGGGATGCTGGATGACCTCTTTCAGTCCATGTTTCTGTGCGCCCTGCTGCTCTTCT
GGCTGTGCGTGTACCACGGGATTCGTGTCCAGGGAGAAAGAAAGTGTTTAACTTTCTATTGTC
CTAAATTCTTCATTGTTGGACTATTGTGGTTGGCGGCCGC

FIGURE 428

GCATCCGCTTGACTGCATNTGAGTTTTCCAGTCTGTCTTTGGGGATGGGGCCATGCCATAGT
CTTGATGTCTTGTGCCGTGTGATTTTTGCAGATAAGATGACTTGGCCCATGGCCCNAGATCA
CTTATTCTGGGGAAGTGTAGGAACAGTGGTTGCCTAACCCAAGTTCTTACATGATGTACCTTT
TTCCTTTCTAAAAAATAACTTAAAAATATGAAATATACTAATTGTTCAGATATTACATACA
ATTGGAAAGTGGACAAGTTCCTGTATATGCTGTCACTTTTCAAGAACCTGAGAATGATCCTCG
GAATTGCTGTTACTTGTGGGCTGTTCACTCTACACAAGATAGGTAGGTCTCATACAAACCTTTG
TTTTGTTTTGTTTTGTTTTTTTTGGAGACAGAGTCTCGCTCTGTTGTCCAGGCTGGAGTGCAGT
GGCGTGATTTTCGGCTCACTGCAACCTCCGCCTCCCGGATTCATGCCATTCTCTCGCTCAGCCT
CCCGAGTAGCTGGGACTACAGGTGCCTGCCACCATGCCTGGCTAATTTTTATATTTTCAGTAG
AGACGGGAGCGGCCGC

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FIGURE 429

TTAATTTAAAAATATGAAAAGTAAAAATGGGATTTTGTCTTATTTGTGTTNNANAGCTGGCTT
TTCACACATGCAGTTGTTAGTGTTTACTGCCCTTGCCATTTTAATTATGAGGCTAAAGATGTT
TTTGACACCGCACATGTGTGTTATGGCTTCCTTGATATGCTCTCGACAGCTCTTTGGCTGGCT
TTTTCGCAGAGTTCGTTTTGAGAAGGTTATCTTTGGCATTTTAACAGTGATGTCAATACAAGG
TTATGCAAACCTCCGTAATCAATGGAGCATAATAGGAGAATTTAATAATTTGCCTCAGGAAGA
ACTTTTACAGTGGATCAAATACAGTACCACATCAGATGCTGTCTTTGCAGGTGCCATGCCTAC
AATGGCAAGCATCAAGCTGTCTACACTTCATCCCATTGTGAATCATCCACATTACGAAGATGC
AGACTTGAGGGCTGCGGCCGC

FIGURE 430

GGCCCNCACTGGCCAAAATAGTTGGAATGCCTTTTNTTATTCACCAATGGGGCCCAAGGGGAA
NAGTGGGTGTTTGGGGGGCCTTTTTCACCATCATCACATCCCTGGATACTTGTAACCAATTT
GCCTGTAGTGCCATCATGACTGTAATGAGTGTGGACAGGTACTTTGCCCTCGTCCAACCATTT
CGACTGACACGTGGAGAACAAGGACAAGACCATCCGGATCAATTTGGGCCTTTGGGCAGCTTC
CTTTATCCTGGCATTGCCTGTCTGGGTCTACTCGAAGGTCATCAAATTTAAAGACGGTGTTGA
GAGTTGTGCTTTTGATTTGACATCCCCTGACGATGTACTCTGGTATACACTTTATTTGACGAT
AACAACTTTTTTTTTTCCCTCTACCCTTGATTTTGGTGTGCTATATTTTAATTTTATGCTATAC
TTGGGAGATGTATCAACAGAATAAGGATGCCAGATGCTGCAATCCCAGTGTACCAAACAGAG
AGTGATGAAGTTGACAAAGATGGTGCTGGTGCTGGCGGCCGC

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FIGURE 431

AGGTGTCACCATGGCAAAGCTTCCCTTCTTGATTCTCTCGAGTTTGTTGAAGCGTNTACGGTT
NCACTGACGGATTCAGAAGCTCATTTTACCTCAGCTTTCATTGAAACTACCTCCTATCTTGAG
TCTTCACTCATTTCCCATGAATCCGCAGTCACTGCACTGGTGCCCCCGGTCTGAGTCTTTTG
ACATTTTGACTGCCGGGATTCAAGCAACATCACCATTGACCACTGTCCACACAACGCCCATT
TAACTGAGTCTTCTTTGTTCTCAACTCTGACACCTCCTGACGACCAAATCAGTGCTCTAGACG
GTCACGTGTCTGTCCTGGCCTCTTTCTCCAAAGCCATTCCCCTGAGCTGACCGTCGTGGGCC
CATCACTCACACCCACAGAGGTGCCACTGAACACCTCCACGGAAGTGAGCACAACCAGCACCG
GTGCTGCCACTGGTGGTCCCCTCGACTCCACCCTGATGGGTGACGCCGCAAGTCAGAGCCCCC
CAGAGAGTAGTGCTGCTCCTCC

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FIGURE 432

ACACTCAGAACAGGAGNAATTTGGACTAATTTTCAAACACTACAGACACTTTCTAATCATGATGC
ATTTCAAAGTGGACTCGGAATTTAACTGNGTTGCAAAACATGNCAGTGCCCGAGGATGATAA
CATTAGCAATGACTCCAATGATTTACCCGAAGTAGAAAATGGTCAGATAAATAGCAAGTTTAT
TTCTGATCGTGAAAGTAGAAGAAGTCTCACAAACAGCCATTTGGAAAAAAGAAGTGTGATGA
GTATATTCCAGGTACAACCTCCTTAGGCATGTCTGTTTTTAACCTAAGCAACGCCATTATGGG
CAGTGGGATTTTGGGACTCGCCTTTGCCCTGGCAAACACTGGAATCCTACTTTTTCTGGTACT
TTTGACTTCAGTGACATTGCTGTCTATATATTCAATAAACCTCCTATTGATCTGTTCAAAGA
AACAGGCTGCATGGTGTATGAAAAGCTGGGGGAACAAGTCTTGGCACCACAGGGAAGTTCGT
AATCTTTGGAGCCACCTCTCT

CCAACCCAATTACCAAGCAGATNCTTTTGGGGGATTCCAGCCATCAGACAAGGAACCCATGGC
AGCTGCAGGGTTTTTTGCATTGTGCAAGCTTATGCTTTCTTGCAGATNTGAGAGCCGATTAAC
AAANCAAGAGTTCCAGACCNTTTTCTTTTTGGGTGTATCACTAGCTGCAGGTGCTGTGTTCTT
TAGTGTCATCTATTTGACTTATACAGGTTACATTGCACCATGGAGTGGCAGGTTTTATTCATT
GTGGGATACTGGGTATGCAAAAATACACATTCCAATTATTGCATCAGTGTCTGAGCATCAACC
TACGACTTGGGTGTCTTTCTTCTTTGATCTACATATTCTTGTATGTACCTTCCCAGCAGGCCCT
TTGGTTCTGCATCAAAAATATCAACGATGAAAGAGTATTTGTTGCTCTATATGCAATCAGTGC
TGTCTACTTTGCTGGAGTGATGGTGCGACTGATGTTGACTTTGACTCCAGTCGTGTGTATGCT
GTCTGCAATTGCCTTTTTCAAATGTTTTTGAGCACTATTTGGGGGCTGCGGCCGC

FIGURE 434

ATTGCAGCTGTTATTTTTTTTGGAAATGCTTGAAAAAGCAGTTTTTTTATAGTGAATACCAAAAC
ATCAGCAACANTGGACTGTCAACCCAAGGCTTATTGATATTTGCGGAGTTGATTTCTGCGATT
AAGAGGACGTTGGCTCGCCTTCTCGTGATCATTGTGAGCCTGGGCTATGGCATTGTGAAGCCT
CGTTTAGGAACAGTCATGCCCGGGTGATCGGACTGGGGCTTCTATACTTAATCTTTGCAGCTG
TTGAAGGCGTGATGAGAGTCATTGGGGGTTCTAACCATTTAGCTGTTGTTCTTGATGACATTA
TTTTAGCAGTTATTGACTCCATTTTTGTGTGGTTCATTTTTATTAGTTTGGCACAAACTATGA
AGACCCTAAGGCTAAGAAAGAACACTGTGAAATTTTCATTATATAGACATTTTAAAAATACTC
TGATCTTTGCTGTGCTGGCTTCTATAGTGTTTATGGGGCGAGCGGCCGC

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FIGURE 435

GGCCACACTGGCCAAACTAAAATTTTTGGTATTGCAGATGACGCTCATATTGGCAACTTACTA
ACATCAAAATTCTTTAGTTATAAGGATTTTGATACTTTATTGTATACCTGTGCAGCGGAGTTT
GACTTTATGGAAAAAGAGACTCCACTGAGATACACAAAGACATTATTGCTTCCAGTTGTTCTT
GTAGTGTTTGTTGCTATTGTTAGAAAGATTATTAGTGATATGTGGGGTGTCTTAGCTAAACAA
CAGACACATGTAAGAAAACACCAGTTTGATCATGGAGAGCTGGTTTACCATGCATTGCAATTG
TTAGCATATACAGCCCTTGGTATTTTAATTATGAGACTAAAACCTTCTTGACACCACACATG
TGTGTTATGGCATCACTGATCTGCTCAAGACAGCTATTTGGATGGCTCTTTTGCAAAGTACAT
CCTGGTGCTATTGTGTTTGCTATATTAGCAGCAATGTCAATACAAGGTTTCAGCAAATCTGCAA
ACCCAGTGGAATATTGTAGGGGAGGCGGCCGC

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FIGURE 436

AGGGTTTTAATAGGACTANCAGTACGATGGGCAGTGTCTNTTAATTTTTATTTCAGGNGCTGGT
AANCCGCCTATGTTTGGTGATTATGAAGCTCAGAGACCTGGCAAGAAATAACTTTTTAATTTA
CCGGTCAAACAATGGTATTTTACCAGCAGTGATAACAATTTACAGTATTGGGGATTGGATTAC
CCACCTCTTACAGCTTATCATAGTCTCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGAC
TGGATTGCTCTCCATACATCACGGTGGATATGAGAGTCAGGCACATAAGCTCTTCATGCGTAC
AACAGTTTTAATTGCTGATCTGCTGATTTACATACCTGCAGTGGTTTTGTACTGTTGTTGCTT
AAAAGAAATCTCAACTAAGAAAAAGATTGCTAATGCATTATGCATCTTACTGTATCCAGGCCT
TATTCTTATAGACTATGGACATTTTCAATATAATTCTGTGAGTCTTGGCTTTGCTTTGTGGGG
TGCGGCCGC

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FIGURE 437

CACTGGCCAAAAAATTCGATGCGAGGCCCCAGNAAGCACGCTGAAACNTGGCGGCCGCAAGCT
GTGCGACTNTTTTGCGGCCGGCCTGGGCAGGTGTCTTCCTCGAGAGGCAGGCAGGGGATCCCG
GACACTAGCTTTATCGTCATCTGGGAAATTGTTAAAAATGCAAATTCGCAAGTTTGAGAGCCA
TGGTTCCAAGAAACTGCATAAGCATAACGAAATAAGTTGCAGCCTCCCGACTTATACCCTGGTA
CTTCTAGTCTAAAACAGGATTTGACTCTACTAATCCAGCCTTATACAGGATGCTGTGTTCTTT
GCTCCTTTGTGAATGTCTGTTGCTGGTAGCTGGTTATGCTCATGATGATGACTGGATTGACCC
CACAGACATGCTTAACTATGATGCTGCTTCAGGAACAATGAGAAAATCTCAGGCAAAATATGG
TATTTTCAGGGGAAAAGGATGTCAGTCCTGACTTGTCATGTGCTGATGAAATATCAGAATGTTA
TCACAAACTTGATTCTTTAACTTATAAGATTGATGAGTGTGAAAAGAAAAAGAGGGGTGCGGC
CGC

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FIGURE 438

AGAAAAAGAAGAATCAACGTAAATAAGATAAANGGATTCAAAATAAAGATNTCTTGAAGAGAA
ATAAGAATCATTTACAAAAGCAGCAGAGAAAAATTTTACAGATGAAGGAGCCAGCTATTTAAG
ATGGGCATCAAGGTTCTCCAGCAGTCTAAAAGCCAAAAACAAAAAGAAGAAGCCTACCTACTT
TTTGCCAAAGCAGCTGACATGGGAAACTTGAAAGCTATGGAGAAAATGGCTGACGCTTTGCTA
TTTGGAATTTTGGCGTGCAAATATAACAGCAGCTATCCAATTATATGAGTCCTTGGCTAAA
GAAGGATCATGTAAAGCCCAAACGCATTAGGATTTTGTCTTCTTATGGAATAGGAATGGAA
TATGATCAAGCTAAGGCACTGATATATTACACCTTTGGAAGTGCTGGAGGAAACATGATGTCC
CAGATGATTTTGGGGTACAGATATTTGTGCGGAATCAATGTTCTACAGAAATTGTGAAGTTGCC
CTAAGTTATTACAAGAAAGTGGCAGATTATATTGCTGACACATTTGAAAAAAG

TTTTGTTGCCTTGGGTGTTCTCACACTCTGCAAGTTTTACTTGCAGGGTTATCGAGTTTTCAT
GAATGATCCTGCCATGAATCGGGGCATGACAGAAGGAGTAACGCTGTTAATCNNTGGCAGTGC
AGACTGGGNTGATAGAACATGCAGGTTGTTTCATCGGGCATTCTTGCTCAGTATTATCCTTTTC
ATTGTCNGTAGCTTCTATCCTACAGTCTATGTTAGAAATTGCAGATCCTATTGTTTTGGCACT
GGGAGCATNTAGAGACAAGAGCTTGTGGAAACACTTCCGTGCTGTAAGCCTTTGTTTATTTTT
ATTGGTATTCCCTGC

FIGURE 440

ACCACCTTGCCCATTTATTTTGGCCCTTGTTAAACCAATAACTGCNTATCCAGATATGCCACA
NTTTTGCCCTGCTGTGGCANCCNTCNTGGATAGGTGCTCTTGTTAATCACATGGATGTTATATA
AGAGTTGGGCCGGCCAGCACACAAGGTCAGCATGTGCTCTTNTGTCACGCTCTCGCTATAGC
TGTTGTCCAGATCGTTATCTTCTCAGAAAGCTGGGCATTTGCCAAGAACATCAACTTCTATAA
TGTGAGGCCTCCTCTCGACCCTACACCATTTCCAAATAGCTTCAAGTGCTTTACTTGTGAAAA
CGCAGGGGATAATTATAACTGCAATCGATGGGCAGAAGACAAATGGTGTCCACAAAATACACA
GTACTGTTTGACAGTTCATCACTTCACCAGCCACGGAAGAAGCACATCCATCACCAAAAAGTG
TGCCTCCAGAAGTGAATGTCATTTTGTGCGTTGCCACCACAGCCGAGATTCTGAACATACGGA
GTGTAGGTCTTGCTGTGAAGGAATGATCTGCAATGTAGAATTACC

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FIGURE 441

ATTTATTTTGCTAAATTGAAAGGGAACATAGATGGAATTCAAAATATGTACATTCAGCTGTT
TGGTTTTTCGTTTTTCATTGTTATTATTGTGAGAATGCTGTTATTGGGGTTGTGTGTGAGTGC
CCGTCAGCCAGTGATGCCTCGGGCCACGCTGTGGGGCCACCTCAGTCCTGCCTGGGTCCTGGT
GCCTTGGACCCACGTGCTTGTGGCCAGGCTGCCCTGGGCGGGGCCATGTGGCCTCAGACCA
CAAGAGCGGAGCTGCCCTGGCCCAAGCACTGCAGCTGCCTGCACCCCCGGG

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FIGURE 442

CGACCGCCCTTCGCGGGGCAGNAAGGCCAGGGGTGCTNAGTTCTTTCACCTCCTTTTAGACTN
AAGATTTGCCAAGTTTTCCGGCATTGNTCTTGAGGATCTCAGAAGGGCTCTTTAAGCAAGACT
GCAAATGGGTGNGTATTTGTTCATGAACCGAATGAATCCCCAGAACAGTGGTTTCACTCAGCG
CAGGGGAATGGCTCTTTGGGATTGTTATTCTTCTGCTTGTTGATGTGATATGGGTTGCTTCCT
CTGAACTTACTTCGTATGTTTTTACCCAGTACAACAAACCATTCTTCAGCACCTTTGCAAAAA
CATCTATGTTTGTGTTTGTACCTTTTGGGCTTTATTATTGGAAGCCATGGAGACAACAGTGTA
CAAGAGGACTTCGCGGAAAGCATGCTGCTTTTTTTGTCAGATGCTGAAGGTTACTTTGCTGCTT
GCACAACAGATACAACATGAATAGTTCTTTGAGTGAACCTCTGTATGTGCCTGTGAAATTCC
ATGATCTTCCAAGTGAAAAACCTGAGAGCACAAACATTGATACTGAAAAAACCC

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[illegible]

FIGURE 444

ACAGTTGTGGGGAATCACTGTTCTGTTAGAAATTTCTGCATTTTATATTATTTTCTTGGCT
ATATTCCCAAAGCTTGGATTAGCACTGCTATGAACCTTCACATAGATGAGCAGGTTCATAGGC
CACTTGACACAGTGAGTGGCCTCTTAAATCTCTCGTTACTCTACCATGTCTGGCTGTGTGGTG
TCTTTCTCCTGACGACTTGGTATGTCTCATGGATACTCTTCAAATCTATGCCACAGAGGCTC
ATGTGTTTCCTGTTCAACCACCATTTGCAGAAGGGTCAGATGAGTGCCTTCCAAAAGTGTTAA
ATAGCAATCCTCCCCCATCATAAAGTATTTAGCCTTGCAGGACCTGATGTTGCTTTCTCAAT
ATTCTCCTTCACGAAGACAAGAAGTTTTCAGCCTCAGCCAACCAGGTGGACATCCCCACAATT
GGACAGCCATTTCAAGGGAGTGTGTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCT
ATCAAGAAGCTGCTGCTACGAATGGGGGGCATCATGCGGCCGC

FIGURE 445

TTCATGGTAAAAAATGAACTACCCTCTGCCATAAAGTTTNTAATGGGAAAGGAAGAGACATTT
TCAGCNTGGACGTGGATGGCCGCGTTCTGGTGGTGATAGTTACCTTTGGCATAATTCTCCCTC
TGTGTCTCTTGAAGAACTTAGGGATCTTGGCTATACTAGTGGATTTTCCNTGAGCTGTATGGT
TTTTTTCCTAATTGTGGTTATTTACAAGAAATTTCAAATTCCTGCATTGTTCCAGAGCTAAA
TTCAACAATAAGTGCTAATTCAACAAATGCTGACACGTGTACGCCAAAATATGTTACCTTCAA
TTCAAAGACCGTGTATGCTTTACCCACCATTGCATTTGCATTTGTTTGCCACCCGTCAGTCCT
GCCAATTTACAGTGAGCTTAAAGACCGATCACAGAAAAAAATGCAGATGGTTTCAAACATCTC
CTTTTTCGCCATGTTTGTTATGTACTTCTTGA CTGCCATTTTGGCTACTTGACATTCTATGA
CAACGTGCAGTCCGCGGCCGC

FIGURE 446

GNCCACACTGGCCAAAAGGTTGCCGCTAGCCGCCTGGGAATTTAAGGGACCCACACTACCTTC
CCGAAGTTGAAGGCAAGCGGTGATTGTTTGTAGACGGCGCTTTGTCATGGGACCTGTGCGGTT
GGGAATATTGCTTTTCCTTTTTTTTGGCCGTGCACGAGGCTTGGGCTGGGATGTTGAAGGAGGA
GGACGATGACACAGAACGCTTGCCCAGCAAATGCGAAGTGTGTAAGCTGCTGAGCACAGAGCT
ACAGGCGGAACTGAGTCGCACCGGTCGATCTCGANAGGTGCTGGAGCTGGGGCAGGTGCTGGA
TACAGGCAAGAGGAAGAGACACGTGCCTTACAGCGTTTCAGAGACAAGGCTGGAAGAGGCCTT
AGAGAATTTATGTGAGCGGATCCTGGACTATAGTGTTACGCTGAGCGCAAGGGCTCACTGAG
ATATGCCAAGGGTCAGAGTCAGACCATGGCAACACTGAAAGGCCTAGTGCAGAAGGGCCCTGC
GGCCGC

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AAGTTTTTTTTTAATTATCATGGGACGGGTNTTGGATTTAATGGGGGGAAAAGGGCGGAAAAAG
GACAAGGATCCAACTGGGGAATTTGTTGATNTTNGGGTCCCTNTCCGCTTTCGGGCCGGCAG
CGGCTGCCAGGGTATATTTTCCTTTTTTCCGATCCTGCAACAGCCTCTTTAAACTGTTTAAATG
AGAAATGTCCTTGGCTCANAGAGTACTACTCACCTGGCTTTTTCACACTACTCTTCTTGATCATG
TTGGTGTTGAAACTGGATGAGAAAGCACCTTGGAAC TGGTTCCTCATATTTATTCCAGTCTGG
ATATTTGATACTATCCTTCTTGTCTGCTGATTGTGAAAATGGCTGGGCGGTGTAAGTNTGGC
TTTGACCCTCGACATGGATCACACAATATTAAAAAAAAGCCTGGTACCTCATTGCAATGTTA
CTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAAACTGGAACAGTTTACTACCATGAATCTA
TCCTATGTCCTTCATTCCCTTTATGGGCCTTGCTGGCTGGGGCGGCCGC

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FIGURE 448

TAATTAAAATGCACACACACACACACACACAGAAATTTTGAGAGCCATTTTAATATAATTG
CCTCCCTAGAAACATACCTTTTAGGGAATTTTATCACTAAACCACATGTTATTTAAATACGT
ACATGTTTAAACATAAATACATACATAAAATTCACATGCATACTTAACACTTATGTTAAATATA
TTCAATGTATATACATATGTACACAATATATGCATATATACATGTGGGTATGTGGTATGTGTG
CATGTGTGTGTATGGCCAGCTACATAATTTGTGGGACTAAGGGCAAAATGAAACTGTACGGCC
CTCGTTCAAAAATTAGGTGTGGGGCGGCCGC

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FIGURE 449

CCAGTTTGTCAAAC TACTACTCTTCAATGCTTCTACATAGCATTCTTTAAGGGCAAATTTGTA
GGCTATCCAGGAGACCC CAGTTTATTGGTTGGGAAAATACAGAAATGAAGAGTGTGACCCAGG
TGGCTGTCTTCTTGAAC TACAACCTCAGCTTGACAATAATCATGGGAGGAAAAGCAATCTGGA
ATAACATACAAGAAGTATTATTGCCCTGGATCATGAATCTAATTGGGCGATTTACAGAGTTT
CTGGATCAGAAAAGATAACCC CACGATGGGAACAGGACTACCATCTGCAGCCTATGGGCAAAC
TGGGATTATTTTATGAATATCTTGAAATGATTATTCAGTTTGGGTTTCGTCACCTTATTTGTGG
CCTCTTTTCCACTGGCCCCTCTGTTGGCTCTCGTGAACAATATATTGGAAATAAGAGTGGACG
CATGGAAACTGACCACCCAGTTTAGACGCCTGGTACCAGAGAAAGCCCAAGACATTGGAGCAT
GGCAGCCCATCATGCAAGGAATAGCAATTCTGGCTGTGGCGGCCGC

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FIGURE 450

CTGTTAATGATTGCATTTGGCCTTGCTGGGGGGGCATTTTCTTGCGGATCAAACCCNCGCAAA
GNGTNTTCATTTCCACGTGTCTGTCTTGTCAAGCACNCCCTTGGTGTCCAGGTTCTTTCATGG
CCAGTGCTCGGGGTACAAANAAGGCGACATTGANTACAAGCCCCGTGCTCNTCGGCATGCTGG
TAACNCAGGACGTGCAGCTCGGGCTCTTCATGGCCGTCATGCCGACTNTCATAACAGGCGGGCG
CCAGTGCATCTTCTAGCATTGTCTGGAAGTTCTCCGAATCCTGGTTTTGATTGGTCAGATTC
TTTTTTCCTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCTCATTGGACCCT
ATTATCGGAAGCTGCACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTTGGGAATATCTG
CCTTTATCTTCTTAATGTTAACGGTCACGGAGCTGCTGGACGTCTCCATGGAGCTGGG

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FIGURE 451

ATCCCAGGCCTTTAGGCCCCGGAATNAACAATTGCAATGCACGTTTAAGGAAAAGGCCATNTC
GGATTCAGACCCTNACGGCCTTCCCACANTTTGTCNTCACTTGCAACAGGGCTTNGGGTGGGC
CTCCCGTTTNTAAAGCACCCCNCTATGAATGCACAGCAGGNCAANACCCAAGTCCCAAGACTG
CCTGGGCCTACTGGCCCCCCTAGCATTTGTGCAGAGGTNTCCTNTACAAGCTCCCATGTTGGG
AANAAGCACAGACCCACCAGGACCCCTGTTNTCCTCCTCAGATCCCCTTCCTGCCACCTTTTC
CCTTCCGGGGACTCAGCCCAGGACACCTCGNTGATTCCTGCCCCCTTTACACCTGCAAGCAG
GGATGCCGGCATCAGAAGAATGTTTNGTGTTTGAAATTGTTTGAGGGGTTTGGGTTTATTTTT
GTTGGTTTTTCTTTTTTTTTTGCTTANGTGGGC

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FIGURE 452

ACGGCGCTCCCCGCCCCGAAATCAAAGCTCCGAGTCATCCGTGTGGGGCATTTCGTCCCCCTGG
CACAGTTGGCCTCTTTCCAGAAGCCCGTTTTGTTTGTTTTACGTNTAAATTCGCGTCGGTTCT
TATTTCTCTCCCTGGCAAGGTCTGAANACGGGTAGGAGAATAACCTGTGTCAGCGTGTTATGA
TGCCGTCCCGTACCAACCTGGCTACTGGAATCCCCAGTAGTAAAGTGAAATATTCAAGGCTCT
CCAGCACAGACGATGGCTACATTGACCTTCAGTTTAAGAAAACCCCTCCTAAGATCCCTTATA
AGGCCATCGCACTTGCCACTGTGCTGTTTTTGATTGGCGCCTTTCTCATTATTATAGGCTCCC
TCCTGCTGTCAGGCTACATCAGCAAAGGGGGGGCAGACCGGGC

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FIGURE 453

GTCATCTTTACATTCTAGTCCTCCTGCATCTCCTCAAGGTTCCCCTCACAAAGGTTACACACT
TATTCCATCAGCTAAATCTGNCAACTTGTCTGACTCCAGCCATAGTGAGATTTNTTCNCGGTC
CAGCATCGTGAGCAATTGTTCTGTTGACTCCATGTCTGCAGCTCTACAGGATGAACGGTGTTT
CTCTCAGGCCCTGGCAGTCCCTGAATCCACTGGGGCATTTGGAAAAGACAGAGCACGCTTCAGG
GATAGGAGATCATAGTCAACATGGCCCTGGGTGGACACTCTTGAAGCCATCTCTAATCAAGTG
TTTAGCTGTCTCATCGTCTGTGAGCAATGAAGAGATTTCTCAAGAGCATATCATTATAGAAGC
AGCTGACAGTGGTCGTGGAAGTTGGACTTCGTGTTCAAGCAGCTCCCATGACAACTTCCAAAG
CCTTCCAAACCCAAAAAGCTGGGATTTTTTTGAACTCTTACAGACATACCCATTTGGATGACCC

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FIGURE 454

TTATGCTTTTCTTGCAGTATNTGAAAGGCCCGATTAAACAAAACAANAGTCCCAANACCCCTTT
TCTTTTTTGGGTGTATCNCTAGNTGCAGGTGCTGTGTTCTTAGTGTCATCTATTTGACTTAT
ACAGGTACATTGCACCATGGAGTGGCAGGTTTTATTCAATTGTGGGATACTGGGTATGCAAAA
ATACACATTCCAATTATTGCATCAGTGTNTGAGCATCAACCTACAGACTTGGGTGTCTTTCTT
CTTTGATCTACATATTCTTGTATGTACCTTCCCAGCAGGCCTTTGGTTNTGCATCAAAAATAT
CAACGATGAAAGAGTATTTGTTGCTCTATATGCAATCAGTGCTGTCTACTTTGCTGGAGTGAT
GGTGCGACTGATGTTGACTTTGACTCCAGTCGTGTGTATGCTGTCTGCAATTGCCTTTTCAA
TGTTTTTGGAGCACTATTTGGGGGGAGCGGCCGC

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FIGURE 455

GCCAGAAAACCTTAAGAAAAAAGCGNAGGAAATTTTCGCCAAAGCTGAAAGATCNCAGCGG
CCTGAGAAAAAAGTTTGCCCCAAAAAGNNTGTTTNAAAAGGCCAAGGAGGAAGCCCCCTTTT
NTCCCTNGGGCACTTGTATTTTTTNAACCCTGCTTTCCCCAAATCCCCACTNATGAGGATCAG
CCCATGGTGGTATTTTTGCGATGATTTCTGNGTCCTGGAGTCTTTNTCNGGTCAACGGTTTT
CTTGTTATATTTGCNCTATGTAGCTGATGTCAATTCAGGAGCNCGGAGNGAAGTACAAGCTTA
TGGATGGGTNCTCAGCCCACCTTTGCGGCTAGTNCTTGTCAGCAGCCCCGGGCCATTGGAGCAT
ATNTTTTCTGCCAGTTTNCGGAGACAGCCTCGTTGTGCTGGTGGCCNCAGTGGTGGCTCTTN
TGGACATCTGGTTCATCTTAGTGGCTGTTCCAGAATCCTNTGCATGAGAAAATGAGNCCNGGT
TTCCTGGGGAGNTGCGGCCGC

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FIGURE 456

TCCTTGTTAAACATGAAGGGCCCCGGTAGCCATGGTTTGGCCACCTTCATTCCAAGCACCCCG
CCCCAGCAAGGCCTCCTGGTACCTTTGTTCANCCACTTGTTGTAGAAGGTGATGCCGATGGAGA
AGCAGTAGTAGANAAGCACCAGCCCCAGGGTCAACNCCGCCTTCCACAAAAAGCCACATCGAG
GGCCNCCTCCCCATTTCGTGGCGGCTGCAGCACCGGAGCTCCTGAGTCAGCGGGGGCAGGCAC
CCCTNTTGAATACAATGTGCAGGAAGAGCCGGTGGAGTTAGACCACAGCTTTCACCAAGAACG
TCTCCAGGCTGGAGGAGCTCTCTGCAGCTCCATGATTGGAACCATCAGCAGAGCCCCAGGCA
GAGTCCTCACCTAAGGGGCTGGTGGCTGGTGCTGACCCCTTCCCATGGTTAATTGGATGCAGCG
CTCACAGGTCCCAAGGTCTGCTCGGCCCTGGGAGCTCCAGGCCGGAATTTTTGGCCAGTGTGGCC

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FIGURE 457

TGCTCCCCTCTCTCCTCTCCACAATCTCACCCATTNTGCATGTGCCGGTGCCCTTTCCTGTCA
TCCCACCTTTCTCTGAGACTGTGTTCTTTTTTCTTAATTCTGTTTTCTGTTTGTTCTTTAGGT
TGCATAGTCTTTATTGATATTTCTTTGAATCACTGATTCTTCTGCCAGCTCAGTCTGTTGTT
GAGCC

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FIGURE 458

GATTACAAAAACAAAAATGTTTAATTTAAGTGAAAGGGNTTAATAATTTTAATCTGGGANTT
AATAATTCAGTGGAATTTTAAATGAATAGTTACTATAATCNCAAATAATTGAGAGTCAACTT
TNTTTTCCCCAAAACATACATGAAAGGTCTGTGTGTGTAAGCTCTGATTTTCAGGACCCCTA
TTTNTGGAAGCAGAGTAACTGGAAATANTAAGTCAAGATNTGAAAACCATTTGAAGTTAACCA
AAAAGCACAGGCTACTAAGGCAGGTGCAGCATCAATGATTCACTACATGGTTCTGATATCAGC
TCGCTTGGTACTACTCACTTTGTGTGGATGGGTACTTTGTTGGACCCTCGTCAATCTCTTTG
AAGCCATTCAGTCCTCAATCTCCTTTTCCTTGGCTACCCGTTTGGTGTTTATGTTTCCTCTTG
CTGTTTTTCATCAAGATAGTAGAGCACATCTTCTTCTCAC

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FIGURE 459

CGGTCCGAATATCCGGAACCTGACCCAATCCTTGGCCTTTGAACTTTCATTTTTTNGTTGTC
TGCCTCAACNCGTCAGGTGGNGCCCAAACNTTGGTAAAGTCNAGATCCGGGGGAGGGTACTTC
ATGGCCTTGGACTCCATATTNTTNTGTCATNTACGTGGTGAAAGCCCTGCTCAAGATCATCGCC
CTGGGCCTCTTGGTACTTCTTTGACTTCTGGAACAATTGGACTTNTTCATTATGGCCATGGC
CGTGCTGGACTTCTTGCTGATGCAGACCCACTCCTTCGCCATCTACCACCAAAGCCTCTTCCG
GATCCTCAAGGTCTTCAAGAGCCTGCGGGCCCTGAGGGCAATCCGGGTCTGCGGAGGCTCAG
CTTCCTGACCAGCGTCCAGGAAGTGACAGGGACCCTGGGCCAGTCCTTGCCGTCCATCGCAGC
CATCCTCATCCTCATGTTTACCTGCCTCTTCCTCTTCTCCGCGGTCTCCTCCGGGCACTGTTCCG
CAAATCTGACCCCAAGCGCTTCCAGAACATCTTCACCACCATCTTCACCCTCTTCACCTT

CGGTCCGAATATCCGGAACCTGACCCAATCCTTGGCCTTTGAACTTTCATTTTTTNGTTGTC

FIGURE 460

CAAAGAAAAGAAAAGGGCACTTCGGAGCAAATCATACTAGGCCTTTGATGCTTTAATTCTT
CTTCAGTTCATTAAAAGTAACTACTAAGGAAAGGTTAAAACTTCCCCTCAAAAAGGAATCAA
CCCCAGGAAGTAATCATTTACAACGATTTTCCCAAATTTTGACAATCTGTCCTGGAAAGCAAA
CCCCTTTTAAAATCTAATGTCTGGGCTTTGAGTATTAGCTCATTTAGGGTGGACAAATGCATT
ACTGTTTTCAAACCTGCTCACATTTATTCAGTATTTCTCCAAGTTGCTATCTACTCAGCCTTAT
GAATGCCCCCTCGCTTTTCTAAGGCCATGTGAAAATCACGGCACTGCCCTTAGCCTTGTGTCAT
CTGCTTTTTTCGTTCTGCGATATGCCAGTTCCCAAATCAATTATAGGTACCTGTTTAGGAGAG
AGGAAGATTTTACCTCTCAAAGGGTGAGATTTGAAATTTACACTAAAAAGACAACCTTTACATT
TAATGCTTCACTTAATGAGACATTCTTTTTTTTATAAGTCTATTTTCTACTCAGTTTCAG

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FIGURE 461

ATGCAGTTGTTAAGGTTTACTGCCCTTGCCATTTTAATTATGAGGCTAAAGATGTTTTTGACG
CTGCACATGTGTGTATGGCTTCCTTGATATGCTCTCGCAGTTCCTTTGGTGGCTTTTTTCGCAGA
GTTTCGTTTTGATAATGTTATCTTTGGCATTCTAACAGTGATGTCAATACAAGGTTATGCAAAC
CTCCGTAATCAATGGAGCATAATAGGAGAATTAAATAATTTGCCTCAGGAAGAACTTTTACAG
TGGATCAAATACAATACCACATCAGATGCTGTCTTCGCAGGTGCCATGCCTACAATGGCAAGC
GTCAAGCTGTCTACACTTCATCCCATTTGTGAATCATCCACTTTACGAAGATGCAGACTTGAGG
GCTCGGACAAAAATAGTTTATTCTACATATAGTCGAAAATCTGCCAAAGAAGTAGGAGAGAAA
TTGTTGGAGTTACATGTGAATTATTATGTTTTAGAAAGAGGCATGGTGTGTTGTGAGAACTAAG
CCTGGTTGCAGTATGCTTGAAATCTGTGATGTGGAAGACCCTTCCAATGCAGCTAACCC

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FIGURE 462

GAAGTGGGCCCCAACATNTGACAAAACCTCCCAATGAANGATTCCCCGCTTGAAACAATGGGGGC
AGGGCTNCCGGCTTCGAGGGGCAAGTTTCAAGCATTCAACAAAGGGTCCCCCGGAAAATTTCN
ANGGNGTCCAACACTCAGTGCCCNAGCCAGCCNCAGAACCCAANACATAAGGCATGTCATC
CACAAGCTCTCCTTTGGGGACAACGCTACAGGTCCAGAACATCCNCGGAGCTTTCAATGCTCT
CGGGGGAGCAGACAGACTCACCTCCAACCCCCTGGCCTCCCACGACNTACATCCTGAAGATTG
TGCCCNCGGTTTATGAGGACAAGAGTGGCAAGCAGCGGTACTCCTACCAGTANACGGTGGCCA
ACAAGGAATACGTTCGCTACAGCCACACGGGCCGCATCATCCCTGCAATCTGGTTCCGCTACG
ACCTCAGCCCCATCACGGTCAAGTACACAGAGAGACCTGCGGCCGC

FIGURE 463

TATCAAGGGGCGGGTTTTGGATTTAATGGGGGGAAAAGGGGGGAAAAGGCCAGGATCCNAACT
GGNGAATTTGGTGATTTTNGGGTCCCTTTCCGCTTTCCGGCCGGGAAGGGCTGCCAGGGTATA
TTTCCTTTTTTCCGATCCTGCAACAGCCTCTTTAAACTGTTTAAATGAGAATGTCCTTGGCTC
AGAGAGTACTACTCACCTGGCTTTTCACACTACTCTTNTTGATCATGTTGGTGTTGAAACTGG
ATGAGAAAGCACCTTGGAAGTGGTTCCTCATATTTATTCCAGTCTGGATATTTGATACTATCC
TTCTTGTCCTGCTGATTGTGAAAATGGCTGGGCGGTGTAAGTCTGGCTTTGACCCCTCGACATG
GATCACACAATATTAAAAAAAAGCCTGGTACCTCATTGCAATGTTACTTAAATTAGCCTTNT
GCCTCGCACTCTGTGCTAAACTGGAACAGTTTACTACCATGAATCTATCCTATGTCTTCATTC
CTTTATGGGCCTTGCTGGCTGGAGCGGCCGC

AAAAGGCCAATTTTAAAGCAAAATATAACAAAACGAGAAGTGGAGGATGACTTGGGTNTNAGCA
TGCTGATTGACTCCCAGAACACCAGTATATTTTGACCAAGCCCAGAGATTCAACCATCCCAC
GTGCAGATCACCACTTTATAAAGGACATTGTTACCATAGGAATGCTGTCTTGCCTTGTGGCT
GGCTATGTACAGCCATAGGATTGCCTACAATGTTTGGTTATATTATTTGTGGTGTACTTCTGG
GACCTTCAGGACTAAATAGTATTAAGTCTATTGTGCAAGTGGAGACATTAGGAGAATTTGGGG
TGTTTTTTTACTCTTTTTCTTGTTGGCTTAGAATTTTCTCCAGAAAAGCTAAGAAAGGTGTGGA
AGATTTCCCTTACAAGGGCCGTGTTACATGACACTGTTAATGATTGCATTTGGCTTGCTGTGGG
GAGCGGCCCGC

[illegible]

FIGURE 465

CACTGGCCAAACCATTATATGGCATACTCTGGNTACGTGGTCTGCCTGTTATTGGAAAGATAT
ATTAAGAATCCAGTTNTGGATTGCAGCTGTTATTTTTTTGGGAATGCTTGAAAAAGCAGTTTT
TTATAGTGAATACCAAAACATCAGCAACACTGGACTGTCAACCCAAGGCTTATTGATATTTGC
GGAGTTGATTTCTGCGATTAAGAGGACGTTGGCTCGCCTTCTCGTGATCATTGTGAGCCTGGG
CTATGGCATTGTGAAGCCTCGTTTAGGAACAGTCATGCACCGGGTGATCGGACTGGGGCTTCT
ATACTTAATCTTTGCAGCTGTTGAAGGCGTGATGAGAGTCATTGGGGGTTCTAACCATTTAGC
TGTTGTTCTTGATGACATTATTTTAGCAGTTATTGACTCCATTTTTGTGTGGTTCATTTTTAT
TAGTTTGGCACAAACTATGAAGACCCTAAGGCTAAGAAAGAACACTGTGAAATTTTCATTATA
TAGACATTTTAAAAATACTCTGATCTTTGCTGTGCTGGCTTCTATAGTGTTTATGGGGTGGGC
GGCCGC

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FIGURE 466

TGGATGGTACCCTGGCCCN^TCCAGAGTCCCAGGGCAATGGGTCCATTTTCAGCCCAATGTGGT
GTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTAAGCCCAAG
CGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTCGGACCATCC
CTTCAGCCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTACGCTCAGGGAGCA
AACCTGGTTAAGATTGGAGAGCGACCCCTGGAGGTTGGTGCGGGGTCCGGGAGTGCGAGCCGGG
GGCCCAGACTTCCTGCAGCCCAGCTCCAGGGAGAGCAACATTAGGATCTACAGCGAGAGCGCC
CCCTCCTGGCTGAGCAAAGATGACATCCGAAGAATGCGACTCTTGGCGGACAGCGCAGTGGCA
GGGCTCCGGCCTGTGTCCTCTAGGAGCGGAGCCCGTTTGCTGGTGCTGGAGGGGGGTGCGGCCGC

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FIGURE 467

AACCTGTGACGTTAGTGTGTTCTTACTAGCTTTAATTTGTATGTAGCAATGAATTGTGAATCT
TAGTGCAGTGGGTTTTTTTAAAAAACTCAAAAAGCTGGGAATTAAGGGTTTCAGTAATAATGC
TATACCGAGGTGCTTGCATTGTATTTTATAATTTTGTACAAACCAAATTATTTTAAATGAG
AACAGTCTTGGGTTTCAGAGGTGTGATGCCAGAATGTATTTTCGTACTGTTAGGCCCTTGGAAC
AGATACCGGTGCTTTCTGAAAGATGAAAGAAATGCAATGGGTGCTCTTCATGCAAGGTTGCAA
ACCTACCAAGAATGCATAATAGTCTCACTTTTCCCCAATAAAGAGATGCGTGTGACTAGTTTT
GGACTTTTAACCTTAATGGGGATGGCGGCCGC

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ATGGTCTGGGCATCCATTGACCTGCTTTCTGTCCCTGTAGATTAGTTTTGCCTGTTCTAGAA
TTTTATGTATGTAAGGGAATGATGACTATGTATGTTTGTGTTTGGCTTATTTTTACCAGCAAG
TTTTTGAGGTTTCATGTTATTGTGTGTATCAGAAGTTAGTTTCTATTTATTGCTCAGTAGTATT
TCATTCTGTGAATTTACCATGGTCTGTTTAATATATTCATCTATTGATGATGAACATTTAGAT
TACTTTTCGTTTTTGCCTATTAAAAATAAAGTTAGTATGAATATGCATGTACAAGTTGTATTG
TGGATATACTTTGTGATAATAACTAGAACCAGGAGTGGTTCAAAATTTAATTTACACATCTAC
TCCCTGTGTTATTTGCC

FIGURE 469

TGGCTGAAAATTTTTGGAAAAAGAATATTTTCTTTTAAATAGGTAACCTAANATATTTTATT
CATTGTCGCCCAGTGTAACAAGAGGAATCAGTTAAACTCCTGTGTCCAGGCCAGTACCNCCAA
TTAATGCACTTGCTAGCTACTGAATTCAGCCAAGATAAATATAATTAAATCTAGTGCTTCAGG
AAATGAGTTGATCATCAAGGGAGTTAGAATGGAAAAACATTTATGNATAATTTTAAAGGACAT
TGGACTTAACTGTTTGGGAATGAATGAGCTTGATTTTTTCTATACATATTATAAGTTAATATAA
AAAAAGGCTTTGGGTAGACTCCGTATGACCTTATGTATTTGATTTTCATGAGTTTCATTTTCTG
CAGTAACTTTATCATTCAATTTTTCATCTCTTAGGCTGGAATGTAGTGGAAAAAGAACTGAACT
AGGAGTTAGAAGATTTAAGTTTTGGCTCTGGCTCCATCACATACTGGCAGTGATGATCTTAGC
CAAGTTTGAACCTGCTTATGGCGGGTCTTGTTTATTCATTTTCAGTATTTCCAAC

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FIGURE 470

AGTTACCCTCACTTTACCAAGGACTTTGCTCGGCGTTTATTAGTGCTGTTTGGGTAGCATTCC
CATTGCTCACAAAGCTCTGTGTGCATAAGGACTTCAAGCAGCATGGTGCCCAAGGAAAATTTA
TTGCTTTTTACCTTTTGGGGATGTTTATTCCTTATCTTTATGCATTGACCTCATCTGGGCAGT
ATTTGAGATGTTTACCCCTATCCTCGGGAGAAGTGTTCTGAAATCCCACCTGATGTTGTGCT
GGCATCCATTTTGGCTGGCTGTACAATGATTCTCTCGTCCTATTTTATTAACCTTCATCTACCT
TGCCAAGAGCACAAAAAAACCATGCTAACTTTAACTTTGGTATGTGCAATTACATTCCTCCT
TGTTTGCAGTGGAACATTTTTTCCATATAGCTCCAATCCTGCTAATCCGAAGCCAAAGAGAGT
GTTTCTTCAGCATATGACTAGAACATTCCATGACTTGGAAGGAAATGCAGTTAAACGGGACTC
TGGAATATGGATCAATGGGTTTGATTATACTGGAATTTCTCACATAAC

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FIGURE 471

GAGGCATTGTGAATGGTTGCAGTGNAGCTTAGGTATAACATCATCAAGTGTGTTACACGCGG
GGTCGGGTTTAAATGGAGTGTCCACGCGGAGATAACTGCGATATTGGAACACCTGTGAGAGAGA
TTGTTCTATAGGGTGGAATATTCAGAGTTACATTCTTGGAAGTTTCTGTTTTTACTTGCATCA
AACACCCCTCTGTTGTTCTCCATCATCTTTAATAGCAACTGGAGACCACTTTGGTCATTGGTA
AGGGGGTGCATTCTCCTCACAAAGGGGTTTTATGGACTTCCTCAGGCGGAGAGCTTCTGAGAA
CACAGGCAGGATGGAAAAAGACTACTAGCCACTTTTGCTTTCCCAACCCCCCTTAATGCCATC
CTTCATTGTCTTTCTGGCTTCTCTTCTTCTGGCACAGTACCATTTGGGTCTGTGCCCCAGTG
TGGAGCAAAACATTGCCTGTCCCATCTCTGATATACTTCAGAATTTGAGAGCAGAAGTTAATGT
GGAACAAAAGTTTTCACCATCTCTCAAGCCCCAAGGACTGGAGCC

ATTAGGCTGTTTGGGAGCATTCCCATTTGCTCACAAAAGCTTTGTGNGCATAAGGACTTCAAGC
AGCATGGGCCCAGAAAATTTATTGCTTTTTNCCTTTTGGGGATGTTTATTCCTTATCTTTAT
GCATTGTACCTCATCTGGGCAGATTTGAGATGTTTACCCCTATCCTCGGGAGAAGTGGTTCTG
AAATCCCACCTGATGTTGTGCTGGCATCCATTTTGGCTGGCTGACAATGATTCTCTCGTCCTA
TTTTATTAACTTCATCTACCTTGCCAAGAGCACAAAAAAACCATGCTAACTTTAACTTTGGT
ATGTGCAATTACATTCTCCTTGTGTTGCAGTGGAACATTTTTTCCATATAGCTCCAATCCTGC
TAATCCGAAGCCAAAGAGAGTGTTTNTTCAGCATATGACTAGAACATTCCATGACTTGGAAGG
AAATGCAGTTAAACGGGACTCTGGAATATGGATCAATGGGTTTGATTATACTGGAATTTCTCA
CATAAC

FIGURE 473

GATTGCAAGGAGGATTTTATATGATAGTCATAGCTTGTCTTTAAAAGTTTGGTATGTGATAAT
ATCAGANCAGTAAAAGGCTATTTTACATTTTAAAACATAATCTTTATTAAATAATTATTTTAC
AAGTTAGTAATTATTGATATTCTTCTTCAGGGACTAGAGTTCCTATGCTTCCTAAACTGACTT
TTAAGGAAAGATGAGACTATATTCAGTGCAGTTTTAATATGACATATTTTATTATCTCTTATT
TTTTAAATTGATATTTTATGAAGGAGTCTATGGACTATAATACGAAAATTCTGGTTGGGGAGG
CAGGAAACCTGGCTTTCAAGTACACTCCAATAGCTTTTATATAAAATTCAGGTGTTCTTTTTC
TCTAATACTTGAAATAGCTATTTTCATTTTCATGTCATTTTCTGTACTTTTCCTGATACTTTT
AAACATTGTTTTATTTTCAAATGAACAGCC

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FIGURE 474

TTCCCGCAATTTTCAGAAAAATGGGANTAAAAGAACTATTTTGTAATAAAAAAGCTTCCA
TTTTTAATGACCANCATGTATTAAGATGGAACNTACTNTACGAAANCGAAGTTNTATGGTNTC
GAAAAGCCCGTGCCTGTTTAAACTTGATCCTAACTAAAAACAGACTTGAGTGGATATNAGAA
TGTTGGTTAGTGGCAGAAGAGTCAAAAAATGGCAGTTAATTATTCAGTTATTTGCTACTTGTT
TTTLAGCGAGCCTCATGTTTTTTTGGGAACCAATCGATAATCACATTGTGAGCCATATGAAGT
CATATTCTTACAGATACCTCATAAATAGCTATGACTTTGTGAATGATACCCTGTCTCTTAAGCA

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FIGURE 475

TTTAGAAATGGTATGGCAGAATCCAGAAAATGCTTTATTGAAGACAGTCATTGATCACCAGTA
CACTTGATCTCCAGTACAGACATATGGTGGAACAGAAGCCTGGATACAGGACTCAGACTCTTA
CTGGTTGGTATCATACGTGATCGTTTGATTTCAGTTCATCTCTAAATTGCAGTTTGCCGTGACT
GTGCTTTTGACATCATGGACAGAGAAAAACAACGTCGAAAAACAACCTGCCACTTTATGTATA
CTCAACATTGTCTTTTCTCCATTTCGTGTTGGTCATCATAGTTTTTTCTACACTACTCTCTTCT
CCCTTACTCCCTCTTTTCACCCTTCCTGTGTTCTTGGTGGGGTTTCCCCGACCTATTCAGAGT
TGGCCAGGAGCAGCAGGCACCACAGCCTGTGTGTGTGCAGATACAGTGTACTACTACCAAATG
GTGCC

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FIGURE 476

GGGTGCTCTTTTTCAATTCAGGAACATCAACATTTANTAAACNGTGGGGTGGGATCCTTACAA
ATCATCCTGCTTTTTTGNANATCACTGGCTACTAAGGCAGGTGCAGCATCAATGATTCACTAN
ATGGTTTTGATATCAGCTCGCTTGGTACTACTCACTTTTGTGTGGATGGGTACTTTGTTGGAC
CCTCGTCAATCTCTTTNGAAGCCATTCACTCCTCAATCTCCTTTTCCTTGGGTANCCGTTTGG
TGTNTTATGTTCTCTTTGCTGTTTTTCATCAAGATAGTAGAGCACATCTTCTTCTCACAGACT
ACAAATATGTGGTTCAGCACGAGGCAGTAGAGGAAAGTGCCTCGACTGTGGGAGGCTTGGCCA
AATCCAAAGACTTTCTCTCCTTGTTGCTGGAGTCGCTAAAAGAACAGTTTAATAATGCCACAC
CCATCCCCAC

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FIGURE 477

GGCCACNCTGGCCAAATAAGGGCAAAAAGCTTTATTTTTTTTGAACAGGAAAACATGTTTTTTTA
AATTCACATGTTTTGTATGAGACTTTTGCGAAGCAAGGCATGAACTGCTAGGTATTATTAAGA
ATGAATGATTTTTGCATTTAAGTTGTTTGAAGGCATGTATTTTGAAAAATATCTGTTACAAAT
TTATAATTTCAAGACAAATTGAATCTTATTTTATAATACTTTTGGAATTTCATTAATAAGGCT
AAAATTTGAGGAATATAACTAATTTTCAGCCTTAAGACATTTAAGTTTGGAAGTCCTTGCTAT
TCAACAGAATAACAAGAAAACCTTCAGAATGTATCACTCTCCTGAAAAGAAGATATTAATAAGC
CCTTTTATTTATGGTTATAGTTTTATTTATAGTCTCAAAATTCCTAAAGCAATGCTACAACCA
TTGAATTTGCCATATTTTGTATCAGTGCTGTTAATTTGCTGTTGCCTCAAGAAAAAGTGCTTT
TTCTCCATGGATGAGGCGGCCGC

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FIGURE 478

CACACACACACACACAGAAATTTTGAGAGCCATTTTAAATATAATTGCCTCCCTAGAAACAT
ACCTTTTtagggNATTTTtATCACTAAACCACATGTTATTTAAATACGGTACATGTTTAAACATA
AATACATACATAAAATTcACATGCATACTTAACACTTATGTTAAATATATtCAATGTATATAC
ATATGTACACAATATATGCATATATACATGTGGGTATGTGGTATGTGTGCATGTGTGTGTATG
GCCAGCTACATAATTTGTGGGACTAAGGGCAAATGAACTGTACGGCCCTCGTTCAAAAATT
AGGTGTGGAGCGGCCGC

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FIGURE 479

ACCAATCAGATGTATTTAGGGATTTGGGATATTCTACCAGGTGTTGTGAAATGTCAAATGGAA
CAAGCGTTTCATCTTGATTTTGGAACTGAATTGGAACCAAGAAAAGAAATAGTGCTATTTGAT
AAGCCAACTAGAGGAACTACTGTACAAAAATTTAAAGAAATGGTCTATAGTCTCTTTAAGGCA
AAATTGGGTGACCAAGGAAACCTCTCTGAACTGGTTAATCTCATCTTGACGGTGGCTGATGGA
GACAAAGATGGCCAGGTTTCCTTGGGAGAAGCAAAGTCGGCATGGGCACTTCTTCAACTGAAT
GAATTTCTTCTCATGGTGATACTTCAAGATAAAGAACATACCCCCAAATTAATGGGATTCTGT
GGTGACCTCTATGTGATGGAAAGTGTTGAATATACCTCTCTTTATGGAATAAGCCTTCCTTGG
GTCATTGAACTTTTTATTCCATCTGGGTTTCTAGGAAGCATGGATCAGCTGTTTACACCATCA
TGGCCAAGAAAGGCCAAAATAGCCATAGGACTTCTAGAATTTGTGGAAGATGTTTTCCATGGCCC

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FIGURE 480

CCCGCCATGACTCGGAGACTGAGGACATGTATGGGACGACNTGCTACATGGCCCAGAGTGCCG
GTCATCTGTCACCAGTGACAGTGAGGGGGGCCCATGTGAATACCCTTCACTCAGGGCCAAACGT
GCCCCAAAGAGGATGTTTTTCAGCAGAATCATTTATTCTGGCTTCAGAATTCAAGTCCTTCCT
CTGATCGAGTTAGGCAATAATCTGGGAGGGGAATGAGTGCAAAAAGATGGATATGTCTGTGTT
GGAAATAAGTGGCATCATCATGAGCAGGGTCAATACCTATCAGCAAGGAGTAGGTTATCAGAT
GCTGGGAAATGTTGTCACTATTGGATTAGCATTTTTTCCATTCTTACATCGACTTTTCCGTGA
GAAGAGCCTTGACCAACTAAAGTCCATTTTCAGCTGAGGAGATCTTGACTCTCTTTTGTGGGGC
ACCACCTGTTACACCTATTATTGTTTTGTGCGATAATTAATTTTTTTGAAAGATTGTGTCTTAC
TTGGATGTTTTTTTTTCATGATGTGTGTGGCGGCCGC

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FIGURE 481

GGCCACACTGGCCAAAGAGCATATTTGATCACTTTGATTCTCTGTTCTTTTCTCTCCGCGGTG
TGTGTGGCGGCCGC

GGCCAAAGAGCATATTTGATCACTTTGATTCTCTGTTCTTTTCTCTCCGCGGTG
TGTGTGGCGGCCGC

FIGURE 482

AAAGACCCAGTCATGGCAAGCCTCCAAGCATCAGTTCACCATGGGGAAAGCATGTGTTCAAAG
CCATTCTGATGGTCCTAAGTGGCCCTTATCCTCCTCCACTCAGCATTGGCCCAGTCCCGTCGA
GACTTTGCACCACCAGGCCAACAGAAGAGAGAAGCCCCAGTTGATGTCTTGACCCAGATAGGT
CGATCTGTGCGAGGGACACTGGATGCCTGGATTGGGCCAGAGACCATGCACCTGGTGTGTCAGAG
TCTTCGTCCCAAGTGTTGTGGGCCATCTCATCAGCCATTTCTGTGGCCTTCTTTGCTCTGTCT
GGGATCGCCGCACAGCTGCTGAATGCCTTGGGACTAGCTGGTGATTACCTCGCCCAGGGCCTG
AAGCTCAGCCCTGGCCAGGTCCAGACCTTCCTGCTGTGGGGAGCAGGGGCCCTGGTCGTCTAC
TGGCTGCTGTCTCTGCTCCTCGGCTTGGTCTTGGCCTTGCTGGGGCGGATCCTGTGGGGCCTG
AAGCTTGTCATCTTCCTGGCCGGCTTCGTGGCCCTGATGAGGTCGGTAGCGGCCGC

FIGURE 483

CAAAACGATTTTATTGCCAAACCCTGTGCACTCCGATTGGCATCGAGGACAGTGGTCCTTATC
AGGCCCAACCCAATGCCATCCTTGAAAAGGTGTTCATATCTATTACCAAGTATCCTGATAAGA
AAAGGTGNAGGGCCTGTCAAAGCAGCTGGATTGGAATGTCCGAAAAATCCAATGCTGGTTNGC
CATCGGAGGAATCAGGACAAGCCCCAACGCTTANTAAATTCTGTGAAAGCATGTGGAGATTC
ACATTTTATTTATGTATATTCTGCTATGGAATTAGATTTCTCTGGTCGTCACCTTGGTTCTGG
GACATCCGACAGTGCTGGCATAACTATCCATTTTCAGCCTCTTTCAAGTGGGCTTTATCACTAT
TATATCATGGAATTGGCCTTCTATTGGTCCCTTATGTTTTCTCAGTTTACAGACATTAAAAGA
AAGGACTTCCTGATCATGTTTGTGCATCACTTGGTCACCATTGGGCTTATCTCCTTCTCCTAC
ATCAACAATATGGTTCGAGTGGGAACTCTGATCATGTGTCTACATGATGTCTCAGACTTCTTG
CTGGGGGCGGCCGC

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FIGURE 484

TCTAGGTCCATTGTACACCTTTTCTGGCACGACAGCCTCCGCCCCACCGCATTCCCCAGGCCAA
GCTGGTGGCCATGCTTCAGACACGAGACCCACCAAGGGCCTCCGCCAGACCACGGTGCCTGCC
AAGGGCCACCCTGAGCGCCGGCTGCTGTCA GTGGGGGATGGGACCCGTGTTGGGATGGGAGCC
CGAACCCCCAGGCCTGGGGCGGGCCTCAGGGACCAGCAAATGGCCCCATCCGCTGCTCCTCAG
GCCCCAGAAGCCTTCACACTCAAGGAGAAGGGGCACCTGCTGCGGCTGCCTGCGGCATT CAGG
AAAGCAGCTTCCCAGAACTCGAGCCTGTGGGCCTAGCGGCCGC

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FIGURE 485

CTGGCCAAACATATGGGGGATGAAAATAAANAATTACATATGAAGATTCAAACCATCCNCA
GGAATGAATTACACGCCCTCCCAGGCATCAANAAGCNCAGGAGGAGNCAGTTATGAAGTCAA
GGTATAGATGCAAAATGAACCAACAAAAGGAAGTTTTTTTTTTGAAAAGCAGTAAAAAAAGCT
NCAAGAAACACCCAANTGAAGCAAATCACGTACAAAGANTGAGACAAATGCTGGCTTGCCCTC
CACATGGTTTTACTGGACAGGGTCATAACAAATGTTACCATCATTGTTCTTCTGTGGGCTGTAG
TTTGGTCAATTACTGGCAGTGAATGTCTTCCTGGAGGAAACCTATTTGGAATTATAATCCTAT
TCTATTGTGCCATCATTGGTGGTAAACTTTTGGGGCTTATTAAGTTACCTACATTGCCTCCAC
TGCCTTCTCTTCTTGGCATGCTGCTTGCAGGGTTTCTCATCAGAAATATCCCAGTCATCAACG
ATAATGTGCAGATCAAGCACAAGTGGTCTTCCTCTTTGAGAAGCATAGCCCTGTCTATCATTC
TGGCTCGTGCGGCCGC

FIGURE 486

TGCATCGTGGGGTATGTACAATGTTTACGCATGTGAGTGTGTGTAAAGTGTGTGTATNAAGTG
TGTGTGTACATCTGTGCAGCTGGTCACCAGCATGTACCTTCACAAGTTAGATTTTGCTGGCAT
ATCCACGAGCTGTCACCACTGTGCCNTGGGCATTGAGCTTTTTGAGGCTTGTGTGTTGGCCTG
TCCCAGGGCTCTGCCATCGTCAGTATTGGCCCCACTCACAGATGTTCTTTCCTGGGTTGGGCC
AGCTCCTTTTGGACACTTTTGAGATCCACCTCGGGCCCGTCTGCGTTTGCGATGCTGCTTTTN
TGTGGCTCCTTCCGGCTACTGGGACTGTTCCCTTCTGGCATTGCCTTCGGCAGCACTTCGAGG
AACTCAGCCTCCAGGGCCTCCTGTTGTCCTTGAAAATGCAGTTTTATTTCATTATTTTTATT
ATTTATTTTTTGGG

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FIGURE 487

CTCAAAATTAAAGTATCAAACAGGGGTCCTCAGAACTGTCTCACTTCCTCCTGCTCCCATCAA
TATTAAAGCCTAAAACTCAAGAATCATTCTTAGCAGTTTTTTTCTCTTTTTTCTTTCTTTTCT
TTTTTTTCTTTTTTGAGACGGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGCGACAGA
GTGAGAC

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FIGURE 488

GTGTGTGAGTGTGTGTGTGTTTAAATGTACCTAATTCTGTAAAGGATTTTAAGTGATTTTTTCA
AAGTGGACCCAATAAAAATAAAAACAATATGCGTGCATGTGTTTTATAAAAGTAATAAAACNAG
TTATTCTGCTTTTTCTAGTCTTAGTTACTTACTTACATATTTATTTGGGGGGTGTGATGTTCT
TTTTAAAAGGAACCTCCTGTGACACCTGTTACTCCGGC

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FIGURE 489

GCAGCTGCCTATTGCACTTGTGAAAAAGGTTTGTATGTTCAACACTGCTGGGNTGGCTCANAG
TTGGGAGTGAATCCTCCAAGGGATAAGCTTGGAGAACTTTTTGAACAGTCAATCTGTAAAGGT
GTTTGCAATCCCAAGGNCAATGGACTAGATTATGAAGGCTCTCGGGTGGACCCACTGTTCTC
TCTGTTTATTAAGCTTTTTGAAGGAGAGAGATGAGGGCAGGACATGTGACAACGGTGCTTTTC
CTTATGCNTATATCGCTCTCCAACAGCATCCTTTCCAAATNTATAGCGCTTCAAAGATTCCAG
GACAGATCGGGAAGAGCCAGTGTCCATAGAAACCTGGGGTTGTTCAGAAGAACGGTGTTCTCT
GTGTTTGTGACGGTGCCCTGT

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FIGURE 490

GGTTTTGTCCTTCGGTATGACAACTACAAAAAGCAAGCCAGTGGGGATT CNTGTGGGGCCCN
TGGACCTGCCAAACATCTCCGGGNGCATGCAAAAAGGTCTCCTACTTTTCACTGCACCCTCATC
GGATACTTTGTAGGCCTGCTCACTGCTACTGTGGCGTCTCGCATTACCGGGCCGCCAGCCC
GCCCTTCTCTATTTGGTGCCATTTACTTTATTGCCACTCCTCACGATGGCCTATTTAAAGGGC
GACCTCCGGCGGATGTGGTCTGAGCCTTTCCACTCCAAGTCCAGCAGCTCCCGATTCTTGGA
GTATGATGGATCACGTGGAAAGTGACCAGATGGCCGTCATAGTCCTTTTCTCTCAACTCATGG
TTTGTTTCCTCTTAGAGCTGGCCTGGTACTCAGAAATGTACCTGTGTTTAAGGAACTGCCGTG
TGACTGGATTTGGCATTGAAAGGGAGCTCGTTTG CAGGAGAGAGGTGCTGGAGCCCTGTTTGG
TTCCTTCTCTTCTGCGGATGTAGAGGTGGGGCCCCCTTCCAAGAGGGACAGGCCTCTCCCCAGC

FIGURE 491

AAGACTCCCAAGGAAGTTGTTGAACTATATTTGGANAAACANGCCACTGAATATTATCATTTT
TCCTTTTAAANAGAGTTTTGTAAAGGGGGNAAACATGCATTTTTATCCAGACAATTTATCCAAA
GCATTTCAGAACATGAAGTGCTGATGAGGGCACCTCTTGNTGAGTCCCNTAAGCTATCAAG
TGTTCTTCTCAAGGACACATTTGGAAGGTTTAAACATTGAAANTGAGCGGAGGACTTGGGGGC
AGAGCAGCACAAAGAAACAGCCTTACACTGGGCACATGGAGGAGACGTCCACCCTGCAGCCAG
GATTGGGGTTTACGTCACTGCCAGAGCTACACTCGCCTTCTGCTTCCACGGTCCTGTTAATTC
TAGATCAGAGAGCAAGAAAAAAGTACAGAACATATCCTCTACGGTTATTTCTGCTTTCTAAT
TAAAAAATAATAACCATGGCAAGAGAGAAAGAAAGAGAAAGTACTCAGAGGCTGACACTGAC
ATTTCACTTCCTCGCTCTCCTAAGTTTAATTACAACAGCACGTGCAGC

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FIGURE 492

TGCAGCATTGGCAGCAACAAAAATTTCTAGTTTGGNTGATGATTTTGGAGAATTCAGCCTTTT
TGGGAATATTTTGGTCTAGCACCTGTTGGGGAGCAGGATGACTTTGCAGATTTTATGGCTTT
CAGTAATAGCTTTATTTTATNTGAGCAAAAGCCGGATGACAAATATGATGCCCTTAAAGAGGA
AGCCAGTCCTGTTCTCTAACCAGCAACGTGGGCAGCACAGTGAAGGGTGGACAAAACCTCGAC
TGCTGCGTCTACCAAGTACGATGTCTTCAGACAACTTTCTCTGGAAGGGTCTGGACTAGGTGT
TGAAGACCTGAAAGATAACACTCCTTCAGGAAAAAGTGATGATGATTTTGCTGACTTCCACTC
CAGTAAATTTTCTTCCATAAACTCGGACAAATCCCTGGGAGAGAAAGCAGTGGCTTTCAGACA
CACCAAAGAAGACTCTGCATCAGTGAAGTCCTTAGATCTCCCTTCCATTGGTGGCAGCAGTGT
TGGCAAGGAGGACTCTGAAGATGCACTCTCTGTTTCAAGTTTGACATGAAATTGGCTGATGTGGG
AGGAGCGGCCGC

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FIGURE 493

GCCCTATCCAGGTTACCCTTCCNAAGGGAAACCAGGTTTCTTTAAAAAATTAAGCAGCCCGGG
GCCGGTGGGCTCACGCTTGTAATCCNAGCCTTTGAAGCCCGAGGCGGCGGATCACCTAGAAGA
TGA CTCAAGACCGGCCTCTGCTTGCCGTGCAGGAGGCGTNAAGAA GTGCTTCCCCGTGGTGGGA
GANCAGCAGGGCCTGTGCAGAGTGCCCTGCGGGACTGCCAGCCCCCTCCTGTCCTCCCTCAGCA
ACCTGGCGGAACAGCTGCAGGCCGACAGAACCTGCGGTTTGAGGATGTGCCGGCGCTTCGGG
CCTTCCCAGATTTAAAAGAGCGGNTGAGGCGTAAGCAGCTGGTGGCTGGTGACATCGTCCTGG
ACAAGCTAGGGGAAAGGCTAGCCATCCTCCTCAAGGTGCGAGACATGGTCAGCAGCCATGTGG
AGCGAGTGTTTCAGATCTATGAGCAACACGCAGACACAGTTGGCATTGATGCTGTCTGCAGC
CTTCAGCAGTGAGCCCCCTCTGTGGCTGACATGTTGGAATGGTTGCTGGATATTGAGAGACGGG
CGGCCGC

FIGURE 494

CAGCATGAGACATCCCCCATGCCTGGGGCCATTNAGATNTTTTTGGAGCACCAGTCACTCCC
AGGTTTTTTATTTTAGGGGTCATCGATTTTACCTACTTTGTCAGACTGGTANAAGTTGCTTTGC
ATATCANAAAACTCCATTTTTTTCCACAAAAGGGATTACAGAAAACCTTTTTGTGAGTGAGT
GATTGGAACCTTAGAGACTCCTGTTGCCAGAATCAGACTGCCCTAGAACAGAATGGACAATGCA
GGGAGGAGAATTACACAAAACAGCACCTGTTNTGAGGCCTGTGCCAGCCCACCAGGCCTGCTC
AAATGTGGTCTTTACTTCAAGTGACAGAGGCACATGAGGTTTNTGGTGATAAACCAGCGTCT
TACCGCTGTTTTAAAGTCCCATCCCCATGGCTTTCACAATCAGTTCGGTTTTTTTTTGCTGTAC
TTGATAAAATGTTTATTCTCATAAGGTCAAGTACATTTACTTCTATTACAGTGAGTACCCA
ATAACAACAAAAGCGCTTACAAATTTGGGGGGGGCGGCCGC

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FIGURE 495

TTTTTTAAAAAAAAAAAAATCTCAGTATAGTTCTGATTAAAATTCCTTTCTGAGTCCTAAA
TGCTTTAAATCTTCTTTTCCCATTCCTTTTACTTCTCCTATCCATAGTTACAAGTTCTTACGC
ATGACATATCTCTTGGCTGATAAGTTTAACTGCTTAAGCACCTGTTTATGTTTCATTTTAAAC
ATAGCCAGTTACTATTATGCTTGGATATACACAATGAGGGGAGCGGCCGC

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FIGURE 496

TGTGGAAAAACAGTTATTGCANCGGTTGCTTANAAAAACATAAAAATGCATCCATGGGGCTT
ATTTATTCAGGAGAAATCTCANAGCNCCTGGGAGTGCTTTANAGNCAGGGGNTGCTTGCATCC
TCTGTGGATGTGTGTGTGTGTGTTTGTGCCTAGGTGTGTGCGCACAGGTTTGTGTGCCTGTGT
GTGCATGTGTGTGGGGTGTGTGTGCATGTGTGTATGCACGTACCCGTGTGTGTGTGCACAGGT
GTGTGTGTGTGTGTGTTTGTGTGCCTGTGTGTGGGGTGTGTGTGCATGTATGCACGTACCAGT
GTGTGTGTGCGCAGGTGTTTGCCTGCACAAATATGCATCTGTGTGTATGTGTGTGTGTTTACA
CGTGTGTGTGTATGTGGCGGCCGC

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FIGURE 497

CATTATAATTAAGTATAGTTACTATGCTGTATATTTGATCACCCAGACCCATCTTATAACTGA
AAGTTTGTATCCTTTGATCCAAATCCCCACATTTTTCCCAGCCACTGACAACCACCACTTTAC
TCTGTTTCTATGAGTTCAACTGCTTTAGACTCCACATGTAAGTGAGATCATAACAGTATTTTTTC
TTTCTGCACTGGCTTATTTCACTTAACATAACATCCTCTAGGTTTCATCTATGTTTCAGCGAAT
GGCAGAATTTTCTTCTTTTAAAGGCTGAATAGTGTTCCCTCAGGTATATATAACCAGATACAC
ATACATAAGGGAATATGTGTGTGTCTCGGGTACATGTACATAAGGGAATACTATTTTTTTACTC
ATTCATGTATGTGTACCAGATACATATACATAAGGGAATATATGTATATGTGTCTGGTACATA
TACATGAAGGAATGCTATTTTTTTACTCATTCATCTCTCAGTGGACACTTAGGTTGTTTTTCATA
TCTTGGCTATTATGAATAGTGCTGCAATAAATATGGGAGTGGCGGCCGC

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FIGURE 498

TTATTGGGAGATATCCATGTTTTTCATAAAATCAACAAGAGAATCCNTGATTGTTTCAGAAGAA
AACAAATTNTGACCGNAGAATGCTGTTACNTGAACCCCTTATTTCGAAGNATCATAAGATTAC
AGGGGTGTTTGCATTTGGACTTTTTGCTACTGACATTTTTGTAAACGCCGGACAAGTGGTCAC
TGGGCACCTTAACGCCATACTTCCTGACTGTGTGCAAGCCAACTACACCAGTGCAGACTGCCA
AGCGCACCACCAGTTTATAAACAATGGGAACATTTGTACTGGGGACCTGGAAGTGATAGAAAA
GGCTCGGAGATCCTTTCCCTCCAAACACGCTGCTCTGAGCATTTACTCCGCCTTATATGCCAC
GATGTATATTACAAGCACAAATCAAGACGAAGAGCAGTCGACTGGCCAAGCCGGTGCTGTGCCT
CGGAACTCTCTGCACAGCCTTCCTGACAGGCCTCAACCGGGTCTCTGAGTATCGGAACCACTG
CTCGGACGTGATTGCTGGTTTCATCCTGGGCACTGCAGTGGCCCTGTTTCTGGGAATGTGTGT
GGCGGCCGC

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FIGURE 499

AAAAAAAAAAAAAAAAAGCTAAAAACCTTGACTAAATCTACCATGTTTTCTCATATTATTAA
AAATTCTAAACGTGGGTTTTTTTTGTTTTGTTTTGTTTTCTGTTTCTCCCTCTGCAGAGTTGT
TAGCGGTTCTCGAGATGCCACTCTTAGGGTTTGGGATATTGAGACAGGCCAGTGTTTACATGT
TTTGATGGGTCATGTTGCAGCAGTCCGCTGTGTTCAATATGATGGCAGGAGGGTTGTTAGTGG
AGCATATGATTTTATGGTAAAGGTGTGGGATCCAGAGACTGAAACCTGTCTACACACGTTGCA
GGGGCAGGCGGCCGC

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FIGURE 500

ATCAATGGCCACCCAGCAAGACCAAGTTACAAGGATCGTATNTTGGTCCGAAGGGATGAAAGT
GGCCCAAGGGTCTCCNTTNTCGGTGAACGTTTCAGCTGNTGCAGGACCACGGGGAAATTGCCAA
GAGTAAGCATCTCCAGGGGGAGATGACCTAACGTTTCCAAAAGAGAAACAGGCAGCAGGTTCT
TAAGCAGTGAAGATGCGGACGAGATGTTGCATGTGGCTCCTGAGGCACAGCAGTGACTTCGTG
CCCAGAGCCTGGCAGAGAGGTGCGCAGGTGTGCCAGCTTCCCTGCCAGTCAGGGCAGCCTTGGG
TGTGTGTGCAAGCATGTGTGCACATATTGTGTGATGTGCGTGCTCCTGTATGTGTGTGCATAT
GTGTGTATGCCTTGACACAGGTGTGCACAGGTCTGAATGTGTATACGTGGGGGGGGCGGCCGC

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FIGURE 501

GAATATCCTGCAGGTATCTCTCCGGCCACNTCCTTGCCTACTGAGCNTCAGCCCTGATTTGT
CATCGTCGGTTTCGTGACCCTCATCATATTTAAGCGGGAGCTGCACACGGCCCCCACACAGCA
GTGGGCACCAAGTACGGGATGCCCTCCAGCCATTCCCAGTTTATGTGGTTCTTCTCCGTCTAT
TCCTTCCTTTTCCTGTATTTAAGAATGCACCAAACAACGCCAGGTTCTTGACTTGCTG
TGGAGGCACGTGCTCTCCCTGGGACTCCTCGCTGTGGCCTTCCTAGTCTCCTACAGCAGGGTC
TACCTGCTGTACCACACCTGGAGCCAGGTGCTCTATGGAGGCATCGCTGGAGGCCTCATGGCC
ATCGCCTGGTTCATCTTCACCCAGGAGGTCTCACCCCGCTGTTCCCCAGGATAGCAGCCTGG
CCTGTCTCCGAGTTCTTCCTAATCCGAGACACAAGCCTCATTCCCAACGTACTCTGGTTTGAG
TACACGGTAACCCGGGCAGAAGCCAGGAACAGACAACGCAAGCTGGGGCCAGCGGCCGC

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FIGURE 502

[illegible]

FIGURE 503

AAGCCTGTGTAAATGGATCAACCAATCCCAGTACATTTGCTTCAAGATTCAAACACATTCAGG
TGGGGGCTTGGGACGGGATCAGCATTATCATGGGGAAGAAAACCACAGGCCATCAGTGGATC
ATACACAGTGCTCATCAAGAAAGATAACGTTACTTTTAAATTGTGGGCTCAAACCTGGACAGCA
AGGTGCACAGTGGAAGAGAGCAGAAGTGTTTTTAGGCATTCGTTACATACACAGATTGTCTT
CAGAGCCAAACGTGGTATCAGTTACATAGGAGATGTAGCAGTGGATGATATTTCTTCCAAGA
TTGCTCCCCTTTGCTTAGCCCAGAGAGAAAGTGTAAGTGTCTCATGAATTCATGTGTGCTAATAA
GCACTGCGTTGCCAAAGACAAGCTGTGTGATTTTGTGAATGATTGTGCTGATAATTCAGATGA
GACTACTTTCATTTGCCG

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FIGURE 504

AAAAAAAAAAAAAAAAAACCTGCCAATTTTCAAACATACCGTAGAGATTATTTTCAGGTG
CCATTTTATAGTATAGCAGCAGGGCTTTTACTCTGTGTATGCACAGATGCAGTCTGGGGCATG
GTTTGTGTGCTGGACTTTCTCATGGCCATCATCAGTATGCTTATGGATTTGATGACAGGCATA
GCCTGGGCATATCACCTCATTGGTAAAGG

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FIGURE 505

TTTAAGTGCAAAAAATTATTTTATTTTTTTTCCAGTAATTTTAAATTGGAATTCCAGCCNTGG
CTTATTTTTTGGGAGACCCAGCCATNTACCAAAGCTGAAGGCACAAATGCTTATTCTCGTCACT
GTCCTTTTTATGTCAGCATTTCAGAGTTACTGGCTGTCATTTTTTCATGGGATGATTTTATTTGT
AGCTTTCATAACCTGTTGGAAGAAGTTACTACTTTGGACAGGCTATCAGGATAACTTCCTATA
TGAATGAAACTCTCTTATATTTTCCTTTTTTCATCCCACTCCAGTTATACTGTGAGATCTAAAA
AAATATTCTTATCCAAGCTCATTGTCTGTTTTCTCAGTACCTGGTTACCATTTGTACTACTTC
AGGTAATCATTGTTTTACTTAAAGTTCAGATTCCAGCATATATTGAGATGAATATTCCCTGGT
TATACTTTGTCAATAGTTTTCTCATTGCTACAGTGTATTGGTTTAATTGTCACAAGCTTAATT
TAAAAGACATTGGATTACCTTTGGATCCATTTGTCAACTGGAAGTGCTGCTTCATTCC

FIGURE 506

TTTTTTTTTGACACGAGACATAAAAACTTTTAATGAAGGAGGACACAGNTCAGAGCCTTCCAC
AATGGGGCCAACNTGCCCCACGGAGACCGGCCATGGCAACCGCTCAATCAGAAGGTGTTNTT
GATGCGGCCGGCCACCAGCCTAAGGATGTCCCCGATCTTNTTCTGCCAGTTGGCGATGTCCTT
GGACACGGCGCACCACAGCTCCCCATGCCGAGGCTNTGCACTCTCACAGCGCTTCCTCACCTC
CTCCTGNTGCTCCTCAGTGCCATGCTGCAGCTCAAACCTTGTAGAAGAAGGCCCAGGCATCCCC
CAGGTCCGAGTCAATCTTCACAGTGCGGTGGAACCACTCCCTGGCCTTGGTGATCTTCCGCTG
ACTCCAAAACAGCTTGGCCACGGCCAGGAGCACATGGGGGTGATGCTCACACTTCTTCAGGGC
ATCCACGCTCTTGGTCCTCCTCTGGGGCCTTGCCTCGAGGAAGA

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FIGURE 507

ACCCTGTTTTTTAAGCACACCTCAAGCGGGGCCTCGCTTACCAATANTTGATTAACCACAAGN
AAAAGTGTCAAGCTCAAGACGTCTCCTTTTACTGTTTGTA AAACTGTCCTGAAA ACTATGAT
CGACGTTCCGGAATTAGAAGGACGTGGGGCAATGAAAATTATGTTTCGGTCTCAGCTGAATGCC
AACATCAAAACTCTGTTTGCCTTAGGAACTCCTAATCCACTGGAGGGAGAAGAACTACAAAGA
AAACTGGCTTGGGAAGATCAAAGGTACAATGATATAATTTCAGCAAGACTTTGTTGATTCTTTC
TACAATCTTACTCTGAAATTACTTATGCAGTTCAGTTGGGCAAATACCTATTGTCCACATGCC
AAATTTCTTATGACTGCTGATGATGACATATTTATTACATGCCAAATCTGATTGAGTACCTT
CAAAGTTTAGAACAAATTGGTGTTCAAGACTTTTGGATTGGTCGTGTTTCATCGTGGTGCCCC

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TCGACCCACGGGGTCCGGTAAAGTTGATGGTCTGCCTTGACATCTCAACCATTCTTGAACCA
CTTAATCCTNTTTTTTGNCAACACTAGTAGAACAGAATCCTGAAGATATGGAGACCTATACCTA
GATGTTGCTGAAGCTTTTNTGGATGTTGGTGAATATAATTCTGCACTTCCCCTCCTCAGTGCT
CTTTGTTTGCTCTGAAAGATAACAACCTTGCAGTAGTTTGGCTTCGTATGCAGAATGTTTAAA
GGCCTTAGGCTATATGGAGCGAGCTGCTGAAAGCTATGGCAAGGTGGTTGATCTGGCCCCACT
CCATTTGGATGCAAGGATTTCACTTTNTACCCTTCAGCAGCAGCTGGGCCAGCCTGAGAAAGC
TCTGGAAGCTCTGGAACCAATGTATGATCCAGATACTTTAGCACAGGATGCAAATGCTGCACA
GCAGGAACTGAAGTTATTGCTTCATCGTTCTACTCTGTTGTTTTCACAAGGCAAAATGTATGG
TTATGTGGATACTTACTTACTATGTTAGCCATGCTTTTAAAGGTAGCAATGAATCGAGC

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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FIGURE 510

TTGCTTGTTAAGCTAACAGGGGTGCAAGCTTCCATTTTGGATCTANTTTTAAATACACTCAGA
CAGGAGAAATTTGGANTAATTTTCAAACACTACAGACACTTTNTAATCATGATGCATTTCAAAAG
TGGACTCGAATTAACCTTGAGTTGCAAAACATGACAGTGCCCGAGGATGATAACATTAGCAATG
ACTCCAATGATTTACCCGAAGTAGAAAATGGTCAGATAAATAGCAAGTTTATTTCTGATCGTG
AAAGTAGAAGAAGTCTCACAAACAGCCATTTGGAAAAAAGAAGTGTGATGAGTATATTCCAG
GTCCAACCTCCTTAGGCATGTCTGTTTTTAACCTAAGCAACGCCATTATGGGCAGTGGGATTT
TGGGACTCGCCTTTGCCCTGGCAAACACTGGAATCCTACTTTTTCTGGTACTTTTGACTTCAG
TGACATTGCTGTCTATATATTCAATAAACCTCCTATTGATCTGTTCAAAAGAAACAGGCTGCA
TGGTGTATGAAAAGCTGGGGGAACAAGTCTTTGGCACCACAGGGAAGTTCGTAATCTTTGG

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FIGURE 511

AGTGGGCTTGAAC TTCGTGAGTTTCGCTTTAAACTGCCCTTGAAATGAAGTGGACTTGGAGGG
GCATGGAATATTCACATGGNAGAGCCGCATGAGGCCGCCACCACGCTTCNTGAAGGATGCCC
GTGGGAAGAATTTTGACGTGCCAGTGTCTCGTTCTACAGGGTGTTCCATTCTTCCGCAATCT
CAGAAAAATGGGACTAAAAGAACTTATTTTGTAAAATAAGAAGACTTCCATTTTAAATGACC
AACATGTATTAAGATGGACACCTACTCTACGAAACACGAAGTTCTATGGTCTCGAAGAAGCCC
GTGCCTGTTTGAAACTGATCCTAACTAAAAACAGACTTGAGTGGATATGAGAATGTTGGTTAG
TGGCAGAAGAGTCAAAAAATGGCAGTTAATTATTCAGTTATTTGCTACTTGTTTTTTAGCGAG
CCTCATGTTTTTTTGGGAACCAATCGATAATCACATTGTGAGCCATATGAAGTCATATTCTTA
CAGATACCTCATAAATAGCTATGACTTTGTGAATGATACCCTGTCTCTTAAGCA

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FIGURE 512

TCCGGAACAATTATAATAAAGCCANCTTTAACCCATTGAGAGCATAAGGATGNTGCAAAGGCN
CAGTGCTGGATGGANAGGACAGTGCCTGGGGCAGTCATGGAAGACTTNTTTAGGAGGTGACTT
TTTAAGGGGTTTTTGTGATCAAANTATGGAGTCTTAAGTCCAACCAGTGGTTATGAATTCCGG
TTCTGCCACTTGCTATAATAGCTGTATCACCATGAGCGATAACTTAACCTCTTTGTGCCTCAG
TTTCTTCATATATAAAATGGGGATCATGATAGCTCTGTCCCAGGGGAGTTAGGAGGATTAAAT
GCAACAGTAATCCAACCCACAGTATGAAAAGACAGGCTAGCACATACAACACAATCTATAAAT
GTTTGCTATTATTGTCATCCTTTTTATTAGTATATCATGGTACAAGTTTGCTGGGTAGAAAGA
TGGCGATGGGGAAGGGGACATTTCAGGCCAATGTGATAATAAAATCAACAGACAAAAGAAGGG
AGAGTGTGGTGAGTAGGATAAAGCTCTGTACAGATGCAAG

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FIGURE 513

ATTTAACTTTCCCCTTTAAAGGAATTGGCTATAGAACTGCTTTGTAAAGATGCTTCTTGATA
TTTTACTTTTGTTCCTTTTCCCTAATCATTCCCTTTTTTCCCCACTCCTCCAGAA

TCCCCTGGGGGACTTGGGATCCCAGACGTTAAANTAGGAGCCGGAAAGAGGGAGGNTTTNTTC
TTGCCTGGAAGTTGCCTGNGTNTTTGTACCACCCCAGCCCCCCCACCGTGGNGGGACCNCTCGG
CAGTGACGGCCACAGTGCCACGTGNTCCAGAACCAGAGGGAAAGCATCACGGTTCNTNGT
TGACAGCTCCCAGTCACACAATCCCCACGTGTCCTGTCATTTCTTAAACAAGGTTTCATCACC
AGATTTAGACCCACCTGCTTTTCTCTCTTTTCTGCTTCTTCCAGAGATTTTTTTTAGTGTCTTC
ATTTCACTGGTTACCACTTCTATCATGTTTCTGGCCCTTTCTTTATTCTCCTTAGCCTCATGT
TCTGTGGTATCCAGTTCTGACTTGACAGACATGAGCTTTTTTCTCAGCTTCTCCTTCATCTTC
TCCAGTTGGTCTCTGGATTTGTTTAGATCTTCAATGGCTTTAGTCTGTTCCAAAGTTTTAATC
TTCAGTTCATTGGTGTGCGCCAGTTTGGCTTTGAGCTCGGTGTGCAAGTCTCG

FIGURE 515

TCAGCCTTTCTATGGAAACAACTTTGAGGATGAGCCNCCTTTATTAAAAAGTTAGGTATCAA
TTTTGACCNCATCTGGCAAAAAACACTAACAGTATTACATCCGTTAAAAGTAGCAGATGGCAG
CATCATGAATGAACTGATTTGGCAGGTCCAATGGTTTTTTGCCTTGCTTTTGGANCCACATT
GCTACTGGCTGGCAAAATCCAGTTTGGCTATGTATACGGGATCAGTGCAATTGGATGTCTAGG
AATGTTTTGTTTATTAACTTAATGAGTATGACAGGTGTTTCATTTGGTTGTGTGGCAAGTGT
CCTTGGATATTGTCTTCTGCCCATGGCGGCCGC

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TTCATGGGAGGACATGGAGATCATGGGAAGCATATCTATGACTATAACCTAAAGCTGAAGCCG
TGTGATGGCCAGTCTTGATTANTGAGCCAGCGCTGAACCCACTGGCCAACCGGCAACAGATC
ACGGAAATGTTTTTTGAGCATCTGGGTGTTCTGCCTTCTATATGTCCATCCAGGCTGTGCTG
GCTCTCTTTGCTGCTGGCTTCACTACTGGCCTTGTGCTGAATTCAGGTGCTGGGGTTACCCAG
AGTGTGCCCATCTTTGAGGGTTACTGTCTGCCTCATGGTGTGCAGCAACTGGATNTGGCAGGC
CTTGACCTCACCAACTACCTCATGGTGCTAATGAAGAACCATGGTATCATGTTGCTCAGTGCT
TCAGACAGAAAGATTGTTGAAGACATCAAGGAGAGCTTTTGTTATGTGGC

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	15
Income	3500	1500	1000	7000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Diet	0.5	0.5	0	1
Work	0.8	0.2	0	1
Family	0.6	0.5	0	1
Friends	0.7	0.4	0	1
Hobbies	0.5	0.5	0	1
Travel	0.4	0.5	0	1
Volunteering	0.3	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.4	0.5	0	1
Environment	0.6	0.5	0	1
Technology	0.7	0.4	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Gardening	0.2	0.4	0	1
Reading	0.6	0.5	0	1
Writing	0.3	0.5	0	1
Cooking	0.4	0.5	0	1
Crafting	0.2	0.4	0	1
Shopping	0.5	0.5	0	1
Traveling	0.4	0.5	0	1
Volunteering	0.3	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.4	0.5	0	1
Environment	0.6	0.5	0	1
Technology	0.7	0.4	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Gardening	0.2	0.4	0	1
Reading	0.6	0.5	0	1
Writing	0.3	0.5	0	1
Cooking	0.4	0.5	0	1
Crafting	0.2	0.4	0	1
Shopping	0.5	0.5	0	1
Traveling	0.4	0.5	0	1
Volunteering	0.3	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.4	0.5	0	1
Environment	0.6	0.5	0	1
Technology	0.7	0.4	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Gardening	0.2	0.4	0	1
Reading	0.6	0.5	0	1
Writing	0.3	0.5	0	1
Cooking	0.4	0.5	0	1
Crafting	0.2	0.4	0	1
Shopping	0.5	0.5	0	1
Traveling	0.4	0.5	0	1
Volunteering	0.3	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.4	0.5	0	1
Environment	0.6	0.5	0	1
Technology	0.7	0.4	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Gardening	0.2	0.4	0	1
Reading	0.6	0.5	0	1
Writing	0.3	0.5	0	1
Cooking	0.4	0.5	0	1
Crafting	0.2	0.4	0	1
Shopping	0.5	0.5	0	1
Traveling	0.4	0.5	0	1
Volunteering	0.3	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.4	0.5	0	1
Environment	0.6	0.5	0	1
Technology	0.7	0.4	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Gardening	0.2	0.4	0	1
Reading	0.6	0.5	0	1
Writing	0.3	0.5	0	1
Cooking	0.4	0.5	0	1
Crafting	0.2	0.4	0	1
Shopping	0.5	0.5	0	1
Traveling	0.4	0.5</		

FIGURE 517

ATATGTGAAATATTGGCAGTCGAACATGAACAACGGTCAAGATGTTCCAGGCACATAAGAGGC
GATTAGAGAGGCCAGGTTTATACACAATATACCATTTTCTGTAGTCCCTATTGTCATGGTTAA
ATTATTCTCTAAGTGTATTCTGGGTGCANAGANGCATGGGCTCTGTCAGTTTCTGGGAAACTT
TNTGCACCCTATAAACACAATATTTTTCTTTGTTTTCACACATTCACCATTTTGCTGGCACCT
TTNTGAAGTAGTGTTGTCCCGGTATCAGCCTTTGCAATATGTTANAGATGTACTGTCTGCCGC
ATTTTGCACTGGTTTTCTCTTTTCATTTATGATTAATAATGTGTATACGTTATTCCTTTTTAT
TATCTACTGTGTAAG

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FIGURE 518

CCCCCGCACCGATTTTTCAAAAAATAATTTTTCTAATTAAGATATGTGTATATGTTTTAACA
TCTTTCAGAAACATAAAATTGAATGAAAAGAGTAATTTGCAGAAACACATGCAATATAATTTA
TTGTGCATTTTTTAAACACACAAAGCAGGACTACATGATGTTTCATGTGTGCGTGTGTATATATA
TATATATTTAAACACACAGACAGGCCGGGCATGATGGCTCACGCCTGTAATCCCAG

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FIGURE 519

GACCACTGGCCCACCCGCCAAGGATTGCCTAGATGATAATTTACAAGNACCACNACTTTAGAT
TTNCCTTATTGATGTTAAGATACCAAACCAAGTAAGTATTAAAATCAGCCAAACCTTGGACAT
TNTGGGAATATATAATCATTTGATAATGCATAAGAATAGGAAAAAATTGAATGTGTTTATGAC
TAAAGTTTTATATTTGTGGTAATGTTAAAATGTATTATTAAATATGTTAAAATTATTTCATTT
TTTTCCCCTTTGAGAGGTAAAGCCTAATACTTCTCCCCTTGAATATGGGCTAGACTTATGAGC
ACATTTCTAATGAACAGAGAAAGTGGATGTGGATGTGACAATGTGTATGTTGGAAGACTAGAC
AATATCAGAGATGAACATGATGGTGAAAGAAAATAAAAGAAGAAAGCTAGTTAATAAAAGGCA
CCATTGTTTCCTCCTCTTCCTCCTCCACCTCTTTAACTCTCTCTCCCTCTCTCTGATCAA
CAGCTCTAGCAAAAGCCAGATGCTATGCGGTGCGGACTTTCAGGCAGCTTTGCAGGGAGATAC
ATGTGGCAAGGAACTGAC

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FIGURE 520

TGGCTTGTAGCCCCATCCAAATAACAGCGGGGAGGAGCGGAGCCTGTGGTACGCAACCCATTA
CCCCNNTGATGAGAGAAAAC TTTTATCCATGACCCAGGATGACTACAAACCATCTGATGGCCT
GCTGGTGA CTGTGAACGGCAACCCCGTGGATTACCACACCATCCACCCAAGCCTGCCCATGGA
GAACGGCCCTGGCAAAGCCGACCTNTACTCCACCCCTCAGTACCGGTGGGAGCCCTCTGATGA
ATCCTCAGAAAAGCGAGAGGAGGAAGAGGAAGAGAAAGAAGAATTTGAAGAAGAAAGGAGCCG
TGAGGAAAAAAGAAGTATCAAAGTTCATGCCATGGTCTCCGTATTCCAATTTATTATGAAACA
AAGTTACATCTGTGCCCTCATAGCTATGATGGCCTGGAGCATCACCTATCACAGCTGGCTGAC
CTTCGTGCTGCTGATCTGGTCGTGCACTCTTTG

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FIGURE 521

GAATTTTTTCGAAAAGCTAATGCCCCATTTTGGATGTCATTTACCATTACCTTTTAATATTN
GGGGGCATTTTGGGATCAAATTATCCTGATGTTTTTCAACAAAGACTTGAGANAAAATAAGGN
GCATTACTTTTTTTGGACATTNTTCTTTTAGACCTATTGTGAGGTGTTTGCCCNCCATTAGAA
ATTNCCCCAAATGGTTGAAAATTNTTAAACAGNAGAAGGAAGAGACTCAAAGTTAGCATCACA
AAGAGAAACNCGATGCTGGAAAGGGAGATTGCATTCTCAATCCGGGATAATTTTCATGCAGCAG
AAGGCTTTCAAGTACATGTCAGTGATTCAGGCTTTTCTCGGTTCTGTTCCACAATTAATTTTG
CAGATGTATATCAGTCTCACTATACGAGAATGGCCTTTGAATAGAGCATTGCTGATGACATTT
TCCCTGTTATCAGTTACTTATGGGGCCATTCGCTGCAATATACTGGCCATCCAGATCAGCAAT
GATGATACTACCATTAAGCTACCGCCGATAGAATTCTTCTGTGTCGTGATGTGGCGTTTTTTTG
GAGGTTATCTCACGTGTAGTGACTCTGGCATTGTTTCATTGCATCTCTGAAACTGAAGAG

FIGURE 522

AAATGTTTTGACAAATCACAAGAAAGTTTCAAAAATTTGGGNNTATTAGTTTGAAAAATTGTT
TTCAGTTCACTTGTGATTTCTTGTTTAATTCAGTGCNGANAGGATTCTTTTANACTTTCCAAG
GATCTTAAAGCTATCNTACCTAGGAATGAGAATTATGGTGTTCCATGACAACTTTGAATAAGT
ATTCCCTAAAGCTAAGAGGAAATTCTNNCAATAATGANTCGGGNCATTGCTATTTTGGGAAAG
TAAAAGCGGAAAAAGCTTGACGACACTGAAAGGCTTGTTGAGATGGAACAAGTCCTCTCTTCA
CTTAACAAGATGAGAAAGACAATAGGTGGTGTGGCTCTCTGGCGACAGCAAATCTGCGCAATT
GCAAGGGTTCGCTTGTTAAAGTTAAAGCATGAAAGAAAAGCTCTTTTAGCACTGCTATTAATT
CTAATGGCTGGATTTTGCCCTCTTCTTGTTGAGTATACCATGGTGAAAAATATATCAAAACAGT
TACACCTGGGAACTTTCTCCTCATTGTATTTCCTTGCTCCTGGACAACAACCACATGACCC

FIGURE 523

CCTTATTGATGTTAAGAAACCAAANCAAGGTATGATTAAAAATCAGCCAAACCTTTGGACATT
CTGNGAATATATAAATCATTTGATAATGCATAAGATAGGAAAAATTGAAATGTGTTTATGACT
AAAGTTTTATATTTGTGGTAATGTTAAAATGTATTATTAAATATGTTAAAATTATTTCATTTT
TTTCCCCTTTGAGAGGTAAAGCCTAATACTTCTCCCCTTGAATATGGGCTAGACTTATGAGCA
CATTTCTAATGAACAGAGAAAGTGGATGTGGATGTGACAATGTGTATGTTGGAAGACTAGACA
ATATCAGAGATGAACATGATGGTGAAAGAAAATAAAAGAAGAAAGCTAGTTAATAAAAGGCAC
CATTGTTTCCTCCTCTTCCTCCTCCTCCACCTCTTTAACTCTCTCTCCCTCTCTCTGATCAAC
AGCTCTAGCAAAAGCCAGCTGCTATGCGGTGCGGACTTTCAGGCAGCTTTGCAGGGAGATAC

FIGURE 524

GAGGGTAGGATCCGCAAGCCCCTTTCGCGAAGCCCGAGNGAGNCCCGGGCGACAGGCAGGCAG
AGAATATGTTATTCCCATCCTTTGGCCCAACANATTTATGGCAGAGATGGTGGATTTCTTTAT
TCTCTTCTTTATAAAAGCAACCATTGTCTTAAGCATTATGCACCTCAGTGGGATAAAGGATAT
CTCTAAGTTTGCTATGCATTATATAATAGAAGAAATAGATGAAGACACATCAATGGAAGACTT
GCAGAAAATGATGGTTGTGGCACTTATATACAGATTATTAGTTTGTTTCTATGAGATAATTTG
CATTTGGGGAGCAGGTGGAGCTACCCCANNGAAGTTCCTGCTGGGGCTTCGAGTTGTGACATG
TGATACATCAGTGCTTATTGCACCAAGTCGGGTTTTAGTNATTCCTTCCTCAAATGTTAGCAT
TACAAC

FIGURE 525

CAAGATAAAATATATGGGGGAAGATGTAGAAATGTGACAGTTTGGCAAAAACAAAGTTCTCCC
AAGATTTTCAGCACGTTTGCAGCGGAAATTCAGGAAACCATCNCAGCACTCAGAGAGCAGATAA
ACAAGCTGGAGGCACGCCTGAGGCAGGCAGGGTGTACAGATGTTAGAGGGGTTC AAGGAAGG
CCGAGGAGCGCTGGATGAAAGAAGACTGCACTCACTGCATTTGTGAGAGTGGCCAGGTCACCT
GTGTGGTGGAGATTTGTCCCCCGGCTCCCTGTCCAGTCCTGAATTGGTGAAAGGAACCTGCT
GTCCAGTTTGCAGAGACCGAGGAATGCCAAGTGATTCCCCAGAGAAGCGCTAATAAAAGTTTT
GTGCTGTTGAGCCCCAAATGGGAAATTTCTCAGGAAGAGACATTTAGGACTTCAGAACTTTTA
ACTTGTAGTCACATTGTTGATATGGAAACCACTGACTTAAGCAACTTAGTTCATCTAATCTTA
CATATACTTACGATCTTTTATTTTTTTCATTTTCTA

GAAGTGAGGAGAAAGTTTATNTTTTTTCATATAAATTTAAGGGTCGTTTCTGTGAACCATTTGCTT
CATGTCTTTTTCACTTTTTTCAATTGTCTCATTTTCCTCAAAATANAGGCACTGTTTATGTAT
TACAGAGATTAGGCCTTTGTCTATTAGTCTTTTCCTGTGAACGAGATCACATAGATTATTTGTT
TCTTTTCTGGCTTTTGAATTTTCAAGCCATCATTTTAAAAAATACTTCCCCATGGTTTTTGTCCA
GTTCTTTTGTAACTTCTTGTTCTCCATTTCAATATTGGATGTTTGGCTTTTGTTCCTTTGCGT
GTTTGGTATGCGATATGGATCCCCCTTAGTCTTTTTTGTCTAGCATCAATATATTTATTTTTAT
ACTGTCCTTCAGATTGATGATGATTTCCAGAGTTCCTTGGGGCTTTAATGCCTGTTGCGTTTAC
AGACTCTCATCCGGG

[illegible]

FIGURE 527

CTTGTGTTTTCTTCCCCTCCCTAAATTTGAAGAACTATGGAGAAAATGGTACTTGATGACAGT
AGTGGTTTTTAATAGGACTAACAGTACGATGGCAGTGTCTCTTAATTCTTATTCAGGTGCTGGT
AACCCGCCTATGTTTGGTGATTATGAAGCTCAGAGACACTGGCAAGAAATAACTTTTAATTTA
CCGGTCAAACAATGGTATTTTAACAGCAGTGATAACAATTTACAGTATTGGGGATTGGATTAC
CCACCTCTTACAGCTTATCATAGTCTCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGAC
TGGATTGCTCTCCATACATCACGTGGATATGAGAGTCAGGCACATAAGCTCTTCATGCGTACA
ACAGTTTTTAATTGCTGATCTGCTGATTTACATACCTGCAGTGGTTTTGTACTGTTGTTGCTTA
AAAGAAATCTCAACTAAGAAAAAGATTGCTAATGCATTATGCATCTTGCTGTATCCAGG

FIGURE 528

CCAGAATGAAAAAAAAAAGTCTTGTTGGATAATAGTGTTTGA CTAGCGTTTTAAGAACTTGAG
AGTAAAAGCACCAATAAGATTTTTTCACTTTTTCCTGCTTCCACCCCCAAACTGAGAACATCC
ACTCAATTGTTTGGAAGAACTGTAGGTCTATATAAATTTTATTTATAATGTATGTGTAATAT
ACATAATCATAATACAGTTCTCAGATGCAGGGAAGAAGTTTGGCATTTAATCATTGAGGCTTT
AGGTTTTTTGATGTGATCAGACTGGGCCATGTCAAACCCGGAATTTTCACCAACAGTTCACTCA
CCCTCCTGGTACATTGCCATTCCAAGGAATTCTGAGAGTAGGCAAACAAATTTTGCCTTCATG
GTACAGTTCTCAGTTTTTTCTTATAGGAGAAATATGGTATATGTTTATAAGAATCTTTTATGAG
ATTATAGATTTCAATGCTGTGGATAGTGTCTTGCACCCAAACAAGAAAGTCCATAATGGAATG
ATCTTCCC

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TCCAAGTCCTTGAACATCTTTGGTTTTTTTTGGAGTGTCCAAACCCATGTTCAGAAACGGCACA
TGGAATACTCATGTAATGNAGGAAAAGTCTATATCTGCAGCTGGACCCAGCCATACCAGGAGT
GATTTTGGAAATCCATACCCGTTTGGGATTGATCCGATTTGGAACCTGGCTTCAAACAAACTC
ACATTTNTGAACTCGTATAAAATGAAGATGTCGGTGATCCTGGGAATTGTCCAGATGGTTTTT
GGTGT CATCCTCAGCCTTTTCAATCACATATACTTCAGAAGAACTCTCAACATCATTTCTGCAA
TTTATCCCTGAGATGATTTTTATCCTGTGTCTGTTTGGATACCTGGTTTTTCATGATCATTTTC
AAATGGTGCTGCTTTTGACGTCCACGTATCTCAGCACGCCCCCAGCATCCTCATCCACTTTCATC
AACATGTTTTCTGTTTAACTACAGTGACTCTTCCAACGC

FIGURE 530

GCCTTTAGTTTCCAGCTACTTGGAAGGTTAAGGTAAAAGGATCCCTTTGGGCCCCGNAGGTTGA
GGCTNCAGNAGTTGAGATCNCACCATTCGATTCCATTTTGGGTGACACAAGCGAGAGCTATCT
CAAAACCAAAAAGCAAGCCAAANCCCCACCCAGACCAAAAAGGTGACTTCCAGGGCTGCCCCAG
CTAGGAACACTCCAGAAAGCAGACAAGGAAAACCGAGTGTGAAGAGTCCCTTTGGAGATTGTC
ATGGCCATGTGACATTCCCTTTGGCCTGAACTCAGTCACATGTCCCCTTCGAGATGCAGGGGGG
ACCTGGGAAATGTAGTTTCTGGCTGGGCAGCTGCTTTCCAGCAATAGCACTCTACTGCAGAAG
AGGAGCAGGAGTCTGTGGTGCAAAGCCAGCCAGGCCTGCCACAGATACTGCACCATTACAAA
AATGCTTTTACACTCATTTTCACTTCTCATCACAATCTATACCATCAGCTATACTGTCCT
CATTTTTCA

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FIGURE 531

GAATGGAGGAAATTGCTTTCACCTTCAAGACTTTCNTTTTTTCCTAAAACCTNTAAAGGTGTA
CAAGGGGAGGGAAGGGGGGCAAAGTCCTTGAACATTTTCTTTGGCTCGGCCATGTTATGATCA
TATACCTTTTAAATAAGGGGAAATAGTATCTTTAAAGTTAATGTCCTAGCCAAGAGTTTAGTAA
ACGAAGAATTAACTGCACCTGTTGATCGGTGCTTTGTGTAAATACATCTTTAACATTTGGGTG
GAGAGGGGCCCTTAAGAAGGACAGTTCATTGTAGGAAAGCAATTCTGTACATGAGTTTAAGCAT
TCTTGTTGCATTGTCTCTGCAGATTCTATTTTTGTTTACAATATTAAAATGTATGTTAGCAA
ATGGGTGGATTTTCAAATAAAATGCAGCTTCCACAAAAGTTTTGTTATGGTATTCTGGTCTGA
GATGCATTTTCANTTTTCCNTTCTCTTTTATTATCAATANTGTCATTTTCCCTAATAAAAT
ATACCCAGG

FIGURE 532

GCTGTCCTGAGCAGTTGCAGAAGCATCGAGGGTGNAGAGGAGCACATACTGTCCATGGAGTGG
TGGTCAAGGTGGACAGGGGGCGGGTGGTGATGGCGCAGTTTGACATTGAATACCAGCGCCTAG
AGGCCTCCTATAGTGATTACCCCCAGGGGAGGAGGACCTGTTGGTGCACGTCGCCGAGGGGA
GCAAGTCACCTTGGCACCATATTGAAAACCTTGACCTCTTCTTCTCTCGAGTTTATAATCTGC
ACCAGAAGAATGGCTTCACATGTATGCTCATCGGGGAGATCTTTGAGCTCATGCAGTTCCTCT
TTGTGGTTGCCTTCACTACCTTCCTGGTCAGCTGCGTGGACTATGACATCCTATTTGCCAACA
AGATGGTGAACCACAGTCTTCACCCTACTGAACCCGTCAAGGTCACTCTGCCAGACGCCTTTT
TGCCTGCTCAAGTCTGTAGTGCCAGGATTCAGGAAAATGGCTC

GCTGTCCTGAGCAGTTGCAGAAGCATCGAGGGTGNAGAGGAGCACATACTGTCCATGGAGTGG

FIGURE 533

GGGTAAGTATATTTCAGTGCAGGTAAAGACTGAATGAATGGGTACCATCAAATTGGTTAAATGA
AGATGGGTTTTTGGCTCAGGAACACAAAGTNTTATTTTATCCTGTGCCAAACACTCCAGTTTTG
CAATGAGATTGTGAGGAAGGAGAAGGCAAGGATTCTGTTCCAATGTTTGGTCCCAGAGGACCT
AGAATAGTACTTTGACCGGGTAAGCGCTTAATAAAATAATGCTTACTCTTATGAATTTAGCTG
CAGAAACATTTAGTCCCATAGACAATATGTGTAGAATGTAAAAAATGCAAATCTTACTAAAAG
AATATACAGGAAAAGTTCTCCCTACTCCTTCCTGAAAGGGAGCCAGTGTTATTAGCTCGTCAT
GGAGATTGTCTGTGCTCATGCAAGCATCTCCCTGCATGTATGTCCTCTTGCTTTTCGTGCAAAG
AATAGCATCCTACACACACCTTTTAGCCCCCTTGCTTTTCGGTTTTGTGTATTTTGCAGATTGG
GTCATTTTGTGCACACAGTGCTATTTTATTCTTTTTTTTGTGTTTCCCCCTG

FIGURE 534

ATCATAGTGTTTTCAAACCTCCCGTGTAAGTTCCCAAATCCCATGTCACAGNTGAGTCTT
GGTTTTGTTGATTGGTTTGTCTCTTGANAGTGTGTTATTTTTTGTTTCATTATGTGTCTCATA
ATTTTTGGTTGAAAGCTAAAGCCTTCTTGNGAAGGCTAGTGGAGACTTGGGTAAACACTATTT
ATGNGCAAAAATGGACATGCCTTTTNTTTAAGGAGGAGGCATTGAGACAACCTCTGTCAGGTTT
TGTTGTTAGTATGGTTACTCTCAAAAAGNACATAATTCAAATTCTTCCAGTATTATTTTTTTG
CTTAGTGGCTGGTTTGTGGAGAGTTTTTCTCAGTGTCTGTTCAAATCACAGTTATTGGTCTT
TTCTTTGTGCCTACGTNTAANAGAGGATATCTTCTGTGCTTTTACCCTCACTCTTCCAGCAG
TANACTGCTGTTACTTGTTC

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CTGCCCATT TTTT TGTCTTTTACCTGGCAAGTGT TTTAAAAAAGGCCTCAAAGAAAAGGGGTTTG
TGTTGCTAGTTAAGCTAGCTTGTATTGTGGNGGCTTCCTTCGTTTTNTGCTGGCTGCCATTCT
TTACAGAAAGGGACCAACCCCTGCAGGTTNTAAGAAGACTCTTCCCGGTTGATCGTGGAATTAT
TTGAGGATAAAGTAGCCAATATTTGGTGCAGCTTCAATGTCTTTCTGAAGATTAAGGATATTT
TGCCACGTCACATCCAATTAATAATGAGCTTTTGTTTTACGTTTTTGTAGCCTGCTTCCTGCAT
GCATAAAATTAATACTTCAGCCCTCTTCCAAAGGATTCAAATTTACACTGGTTAGCTGTGCGC
TATCATTCTTTTTATTTTCTTTCCAAGTACATGAAAAATCCATTCTCTTGGTGTCACTACCAG
TCTGCTTAGTTTTAAGTGAAATTCCTTTTATGTCTACTTGGTTTTTACTTGTGTCAACATTTA
GTATGCT

FIGURE 536

GGTTTGTTTCCCCATCTGCCATATTATAAGTTTTTTGAGGCATCCCCAGCCATGCTGAACTGG
AAGTGGCACTAAGGTCCAAAGGAAGCTACATATGGGTGGTCCCTGTTACACCAGCCTCCCAAG
CCTCCCAGTGACCTTCTAGGAGACAAGCAAGGAAGGCCGCTGCTTGTTTGTTCATCCTGCTCA
TGGCGGTGTACTGGTGCACGGAGGCCCTGCCGCTCTCAGTGACGGCGCTGCTGCCCATCGTCC
TCTTCCCCTTCATGGGCATCTTGCCCTCCAACAAGGTCTGCCCCAGTACTTCCTCGACACCA
ACTTCCTCTTCCTCAGTGGGCTGATCATGGCCAGCGCCATTGAGGAGTGGAACCTGCACCGGC
GAATCGCCCTCAAGATCCTGATGCTTGTTGGAGTCCAGCCGGCCAGGCTCATCCTGGGGATGA
TGGTGACCACCTCGTTCTTGTCATGTGGCTGAGCAACACCGCCTCCACTGCCATGATGCTTC
CCATTGC

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FIGURE 537

TTGGCCTAATTTAAGTGATATAAAAAATGAAATTTTTTATGCAGTGTGGGNGAGGGGCAAAAA
AAAATANATTTGAACACCCAGATTTTAGTTTTGGCTCTGTGNTTGCAGCTAGTTACATGGCAT
CCAGGACNAAAGTTTGGAAAACAAAATAATGGAATAAATAGTACTAACCAAAGTATAGGGTG
CTTTATGATTTACAGAACTCTCTTACAGGCAGTATGTTGTTTCAGGCGCCACTAGAACCCACGT
AATGGCAGAGGCTTCCTGTTCCATGTTTAAAAACCTTCCAAGGCTTTTCATTATTTTCTTAT
CTGTGGTACCCCTAGCTTCCTGTGCTCTAGACACACTGGCCTACCTTCAACTTCCTTGACCAG
TGTAGCTTACAGTGTAAGCTTACCCACACCCCCACCTCCTGCAATAAAATAGTAGCATCGGC

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FIGURE 538

GGTAATGGGCAATTAAAATTTTTTCGGGTCTGGATTTTAAAAATTTATATTAAGGNATTGAAG
TTCCTTTTCTCCNTTAGGTTTAACAGTGAATTCACATGAGTAATTTTAAAAGATATCAGATN
CATTTTGCTATTCAAAGAAAATTATGATTTAAAGCCACTTTTTAAATNCGAGAAGGAAAATA
GGATGGATTAAAGGGTTAACTTTTAAAGATTATTATTGGTTAATGTTGACATATTCCTCTAT
CTCATAGATGGTAAAAGTGTTGCTTTTAAAACTGGCAAATGCACTCTTCAGAAATCCTTTTC
TATCTGATCCACATGGAGAGGTTAAAGGTTCAATTTTCATGACCTCTATGCAGGCAGCGCTCTC
ATTGGATGTAAGAATATTACCTGCAAGGATAGAATGCAGTTGTGCAACAGAGACACATTCTTA
TTTCACTTTTTTCACAATTTTGTTTTGTTTTTAATGACCCTTTTATTGAATATTGG

FIGURE 539

AAAGGGTCCGGTCCCCGGCCGAAACCACTTTTGATCTTTCNTCTTTGGGCTCAAAAAATGTA
CAGGTTTTCCAGGGCAGCCTTGGGATTGGGCCACTTCCTTTANGATCCTGGTTCTTCCCGTTG
TCTTTNANACGGAGAAGTTGCAAATGGAGCAACAGCAGCAATTGCAGCAGCGGCAGANACTTT
TAGGCCTAANACAGGGCTNTCAGGAGGAATGCCAGGGGCTTTACCCTCACNTCCTGGAAANAT
NTANATTGTTATTGCNGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATTCAAGNGTTTGAAC
TGNTGAAAATTGGAATTTTTTTTTTAACTTTGGCAGCAANGGGTTCG

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FIGURE 540

GGTTTGCTTTGGGGGTGTTTTTGAATATTTTGTGACTGCGNCNTCNTAGGGTCACTGGCATT
TTGNNTAGCTATAAATTATAAACAGATGGAACCTTACCACGCCTTGCCATTTTTTTTGCTTTTT
ACTTGGCAAGTGTTTTAAAAAAGGCCTCAAAGGAAAGGGGTTTGTGTTGCTAGTTAAGCTAGC
TTGTATTGTTGTGGCTTCCTTCGTTCTCTGCTGGCTGCCATTCTTTACAGAAAGGGAACAAAC
CCTGCAGGTTCTAAGAAGACTCTTCCCGGTTGATCGTGGATTATTTGAGGATAAAGTAGCCAA
TATTTGGTGCAGCTTCAATGTCTTNTGAAGATTAAGGATATTTTGCCACGTCACATCCAATT
AATAATGAGCTTTTGTTTTACGTTTTTGAGCCTGCTTCCTGCATGCATAAAATTAATACTTCA

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FIGURE 541

CCTTCCACTTATGTGGTCCACACCACCCGCCTCCCCTGCCAGGNTTTATTTNGNGTGTGTGT
GAGTGTGTTCTGTTTTGTGTTTTGTTTTTGTGTTGTTTTCAGTTGTTTGGTTTTCTTTTCT
TTCCCCCCTCCGGTCCCATACTTCACAGCACTCTGGTGCGGGAAGAAGCAGAAG

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FIGURE 542

TCTAGTTTGCCTAAGTAGAATTTACATGGGAATGCACTCTATTCTGGATATTATTGNTGGATT
CCTATATACCATTTTAATCTTAGCTGTCTTCTATCCATTTGTGGACCTGATTGACAACTTCAA
CCAAACTCACAAATATGCTCCATTTCATCATCATCGGGCTTCATTTAGCTTTGGGGATCTTTTC
TTTCACTCTTGACACCTGGAGCACATCCCGAGGAGACACAGCCGAGATACTAGGAAGTGGTGC
TGGAATTGCATGTGGATCTCATGTTACTTATAACATGGGTCTAGTATTAGATCCTTCTCTAGA
TAC

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FIGURE 543

AGAACCCCCCGGTGAAGTTTTCCGCCAATAACCTAAGGGGGCTTTTTCCAGGACTTCAACCCG
AGTAAATTCCATCTATGCCTGTCTGCTGCTTGTCTTCTGTGCTGCTGGCCCTTCGTTTGGA
TGGCATCATACAGTGGAGTTACTGGGCTGTCTTTGCTCCAATATGGCTGTGGAAGTTAATGGT
CATTGTTGGAGCCTCAGTTGGAACTGGAGTCTGGGCACGAAATCCTCAATATCGAGCAGAAGG
AGAAACGTGTGTGGAGTTTAAAGCCATGTTGATTGCAGTGGGCATCCACTTGCTCTTGTTGAT
GTTTGAAGTTCTGGTCTGTGACAGAATCGAGAGAGGAAGCCATTTCTGGCTCCTGGTCTTCAT
GCCGCTGTTCTTTGTTTC

FIGURE 544

TTAATGTCTAAGCCAAGAGTTTAGTAAACAAAGAATTAAACTGCACTGTTGATCGGTGCTTTG
TGTAATAACATCTTTAACATTTGGGTGGAGAGGGGCCTTAAGAAGGACAGTTCATTGTAGGAA
AGCAATTCTGTACATGAGTTTAAGCATTCTTGTTGCATTGTCTCTGCAGATTCTATTTTTGTT
TACAATATTAAAATGTATGTTAGCAAAATGGGTGGATTTTCAAATAAAATGCAGCTTCCACAA
AAGTTTTGTTATGGTATTCTGGTCTGAGATGCATTTTCATTTTTCCTTTCTCTTTTATTATC
AATATTGTCATTTTCCCTAATAAAATATACCCAGG

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FIGURE 545

AGTTTCATATATTTGGAATGAGCCTTGAGCCATAAAAGGTTTTTCAGCAAGTTGTAAGTTATT
TTGGCCTAAAAATGAGGTTTTTTTGGAAAGAAAAATATTTGTTCTTATGTATTGAAGAAGTG
ACTTTTATATAATGATTTTTTAAATGCCCAAAGGACTAGTTTGAAAGCTTCTTTTAAAAAGAA
TTCCTCTAATATGACTTTATGTGAGAAGGGATAATACATGATCAAATAAACTCAGTTTTTTAT
GGTTACTGTAAAAAAGACTGTGTAAGGCAGCTCAGCACCATGCTTNTCGTAAAAGCAGCTTCA
ATTATCCNCTGGGGTTATCTTTTGACAACCTTGCCATTATCTGATGTTACACAATTCAATAGCA
AGCAAGTTTGAGACAATCGC

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FIGURE 546

CATAAATATACCCACCCCAAATGGACGACTTATGAAGGAATTNCTTGTGAAAGCTCATTGGAG
TAAAATTTCTCTCAAACAATACTTTTAGGTCATANGCNTGAGTCTATTAATTATTTTTCTGT
TANACCCTGCCAAAAAAGAATTTTAAAAGTTAGTTTATGTTTTGTGTAACCATGTTCTTCAGA
ATGCAGGTATGTGAGCATCATGGTTTCTGGGTAATTCTGCTGCTCCTGTCTTTGAAAATGGAG
ATACCACTTGCAGCTTATCCCACTGCTGAGTATTCCAGCATTGGTAGTGGTTTCACTCCATTG
CATCCATCCAGAACTTTCACACAGGCCTCCCCGAACCCCTTGCGGCGCAAGGGGTTCG

FIGURE 547

AAAAAAAAAAAAATTAAGTGAACCTCTACTTTAGAATGTTGGCTTTTCATATATGTACAAAACA
AAAGAGGTTGCAGTGATGGCGTGGATAAAGGCACCTGTGTACTTTTCCAACCTATCCAATTC
AAGATGTATCCTTTGTGGATTACATTGGTTCTTTTCTATGGAATCATGCACCTTAGACCTGGG
AGAAACCAGCGTGACATCCAGGGTCAAGGTTTTCCAATCAGGTATTTTGGGCAAGGGGTTTCG

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FIGURE 548

AAAAAAAAAAAAAAAAAAGCTAAAAACCCTTGACTAAATCTCCCATGTTTTCTCATATTATTA
AAAATTCTAAACGNGGGTTTTTTTTGTTTTGTTTTGTTTTTCTGTTTCTCCCTCTGCAGAGTTG
TTAGCGGTTCTCGAGATGCCACTCTTAGGGTTTGGGATATTGAGACAGGCCAGTGTTTACATG
TTTTGATGGGTCATGTTGCAGCAGTCCGCTGTGTTCAATATGATGGCAGGAGGGTTGTTAGTG
GAGCATATGATTTTATGGTAAAGGTGTGGGATCCAGAGACTGAAACCTGTCTACACACGTTGC
AGGGGCATGCGGCCGC

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FIGURE 549

AAATTATCTTTACTGATATGCGTTGCCAAATCCCATGAGAAAAGACATCTCATTTGAGGTTCC
CCTTCCTCTCATGTGGTTGATTTTTTGGGAAGGTGATACAGATGTGGGTAACCATGCAAATGTT
TATGAATAACTTTACTGAAGTGATTCCATCCGTATTCTGTTCTAATACTTGGAGAATGACCTT
CATATTTATATATTTTATTTCTTTGTTTCAACTATCCAG

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FIGURE 550

TGAAGATATGGGAGACCTATNCTTAGATGTTGCTGAAGCTTTTCTGATGTTGGGAATATAATT
CTGCACTTCCCCCTCCTCAGGGCTCTTGTTTGCTCTGAAAGATACAACCTTGCAGTAGTTTTGG
CTTCGTCATGCAGAATGTTTAAAGGCCTTAGGCTATATGGAGCGAGCTGCTGAAAGCTATGGC
AAGGTGGTTGATCTGGCCCCACTCCATTTGGATGCAAGGATTTCACTTTCTACCCTTCAGCAG
CAGCTGGGCCAGCCTGAGAAAGCTCTGGAAGCTCTGGAACCAATGTATGATCCAGATACTTTA
GCACAGGATGCAAATGCTGCACAGCAGGAAGTGAAGTTATTGCTTCATCGTTCTACTCTGTTG
TTTTCACAAGGCAAAATGTATGGTTATGTGGATACCTTACTTACTATGTTAGCCATGCTTTTA
AAGGTAGCAATGAATCGAGC

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FIGURE 551

TGGACCCCAGTTGTCAGCTGGGNGGTACTGGATCATCTTTNTTCTATCACAAGATAAACTATC
AANTTCCCCAGCATCATGACCTTGTTGCCGTAAAAAGGAGTTCACTACTTCTGTTCACTTTGA
GTCTCTTCAAATGGATTCTGTGTCCTCCTCTGGAGTCTGTGCTGCATTTATTGCTTCTGACTC
TTCCACTAAGCCAGAG

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[illegible]

[illegible]

FIGURE 554

TTAAAATAGTAAAAAAAAAAGAATTTATTTTTGTTCTTTGTTAGAATTTCTCTGCAAAGAATG
TCCAAAATTCATATTCACATTGATCGTATGGCAAAAAGATGTCCCAGAAGAACAAGAACATA
TGAGAAGATGGCTGCATGAACGTTTCGAAATCAAAGATAAGATGCTTATAGAATTTTATGAGT
CACCAGATCCAGAAAGAAGAAAAAGATTCCTGGGAAAAGTGTTAATTCCAAATTAAGTATCA
AGAAGACTTTACCATCAATGTTGATCTTAAGTGGTTTGACTGCAGGCATGCTTATGAC

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FIGURE 555

CCTTATTTTCCATTCCAAATGGCAGCCAGNATAAAATTNATTTCCCACAATTTCCCTTTAANG
GTAAGGGTTGCCCTTNCCGCAATGCCCCCTCACATGGTTCTTTTGGNCAGTTCGGAAGCCCTTG
GGNTCTTGATGGCTTTGTGTCTAGTAATAATGCAGGGTGCTCAAGGAAATAAATTCAGTGTGG
ATATACTGAAAAC

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GGTCCGGAATAAGCCATTAGCAATCCTTGCTGTATCCAGGCCCTTATTTTTTATAGACTATGGA
CATTTC AATATAATTCTGTGAGTCTTG GCTTTGCTTTGTGGGGTGTTCTTGGAATATCTTGT
GACTGCGACCTCCTAGGGTCACTGGCATT TTTGNTTAGCTATAAATTATAAACAGATGGAAC TT
TACCACGCCTTGCCATTTTTTTTGCTTTTTACTTGGCAAGTGTTTTAAAAAAGGCCTCAAAGGA
AAGGGGTTTTGTGTTGCTAGTTAAGCTAGCTTGTATTGTTGTGGCTTCCTTCGTTCTCTGCTGG
CTGCCATTCTTTACAGAAAGGGAACAAACCCTGCAGGTTCTAAGAAGACTCTTCCCGGTTGAT
CGTGGATTATTTGAGGATAAAGTAGCCAATATTTGGTGCAGCTTCAATGTCTTTTTGAAGATT
AAGGATATTTTGCCACGTCAATCCAATTAATAATGAGCTTTTGTTTTACGTTTTTTGAGCCTG
CTTCCTGCATGCATAAAATTAATACTTCAGCC

FIGURE 557

AAATCTTCTTGAGCTTTGTTTTGAGATGTAGTTGAGTTAACTTATAAACCGTTTCATTCTTTT
GGGTNTTGTTTTTATGATTTATTAGACAGATATGAAGGAGTGCTTAGTCCAGGANTAATTATT
CCTCACCACTGAGGCAAGACTTTCTGTGGACTCTGTTGAATGTTCCATGAATTAATAGTTTTTC
CCAGTTTGGCTAGTGGGAACAGATACTATTCCTGGCTTTGTATGAGTATCAGGCCCTGTTCCC
TCCCATTGTTTCTGATGTTCTTTTTCTGGATTCTCATAGTTTCCTCATATGCATATGCTGATC
AGTTATCTGGTGAATGCTTGAGAGAAGATCTCTATAGACCTCTGGGGTTCTTTTCTATGCAAC
TGTCTCCTCTCAGCATTCTGTGCAGTTATTCCTTGCTGCTTTTTTCTCTCCTGGCTCTTAACT
TTCTCTTTCCAACCTCAGGAGTCAGCTGAGATTTGCCTCAGTTGCCAC

TTGCCCTTGGGAGTAAACCTTGAATNATTTTAAAAAAACNACGGTTTTTAAACCTTGGCNACCG
TTGGGTTGAGGCCTTGACCACCTTTTGGGACACCNTGCAAGAGGANTCCAACCCNAAACAACAA
CCAGGATGTGCTCCNAGCCCAGCCCGGGGNTTCAGTNCCATANTTTGCCATGTGTCTGTCCAG
ATNTGGGGTTGAGCGGGGGGTGGGGNTGCAACCCAGTGGATTGGGTCACCCGGCAGACTTAGG
GAAGGTGAGGCGANGTGGGGAGTTGGCAGAATCCCCATACCTCGCAGATTTGCTGAGTCTGTCT
TTGTGCAGAGGGCCAGAGAATGGCTTATGGGGGCCAGGTTGGATGGGGAAAGGCTAATGGGG
TCAGACCCACCCCGTCTACCCCTCCAGTCAGCCCAGCGCCCATCCTGCAGCTCAGCTGGGAG
CATCATTCTCCTGCTTTGTACATAGGGTGTGGTCCCCTGGNANGTGGCCACCATCATGTCTAG
GCCTATGCTAGGAGGCAAATGGCCAGGCTCTGCCTGTGTTTTTCTCAACACTANTTTTCTGAT
ATGAGGGCAGCACCTGCCTCTGAATGGGAAATCATGCAACTACTCAGAATGTGTCTCTCAT
CTAATGCTCATCTGTTTAATGGTGATGCCTCGCGTACAGGATCTGGTTACCTGTGCAGTTGTG
AATACCCAGAGGTTGGGCAGATCAGTGTCTCTAGT

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FIGURE 559

ATCCGGCTGGGATACAATTTTCATCTTCCATTTNACTCTTGTCAATTCCACCTTTTAAGAAGA
CAGCNTNTCATTCCCTGAGGCATGAAAATTCTCCAGGGACAAAGCCATGCNTCAGTNACATGTG
TGTGCAGAGAGAAATGCACCTGTNTATCTAAGGGTAGATTTTTGATCCCTGAATAATTCATTG
ACTAAACTGACCTCTTCCTCCTGGCTAAATAAATTAATTTTGCTGGCTTCTCTCTCAGCGGTT
TCTATTTTGTAAATTGCTGCATGACCAAAATAGCCCCANTCAAAATCAATTGGATTAATNTTA
ATGGTTTGGTTGGATGAATATTCTTGGATGAATATAAAATGTGCTGCCCTTCACAGATGACAC
CACTCCCCTGTCAATCATAGCACATGTGTACTTTTTATTGTTACTTAATAGTGATGGATTTGC
ACTTTTCTATCCTCATACTCTTTCCTGTTTTCTTCTTTGTACAATTGCATGCAGGAGGGCTGG
ATGCCAGGGTTAAGAGAGAAATTCATGACAAGGAAGGTAAAATTGGTTCAAATGAGCATGTGT
CCCACAGCCTTAGTCTCCC

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FIGURE 560

CCGGGAAATTAAGCCCTTTTTTTTTTTTCAAATAATAAAAGCTTCGAAATTGAAAGGGAGAAG
TAAATATNCCGGATACCATGATTTAATATGTAGAAATTNTAAGAGATTNCNAAACCATTAAAG
ATAAAAGCCAGTTCACCAAAGTNAAGGATGNAAGATCAGTGTACATAAATCTGTTTTATTTC
ATATACTTGCAAAGAGGAATCCCAAACTGAGATTGAGGAAAGCATATATAATAGCATCAAAA
AGTAGTACAAAACATATACTCTGAAAACGTCAGAATGTTGAGAGAAATTAAATAAGTAAATAG
ATAATCCCATGTTTCATCTAGCCAGAGGACTCATGTATTTTGGTTATTAACCCCTGATCAGATG
TATGGTTTGCAAATATTTTCTCCATTTTCATACATTGGCTCTTCATTCTGTTGATTGTTCTCT
TCCTGTACAGAAGTTTTTAAGTTTCATATATAATTTTAGTGGTCTATTTTGCCTTCGTTCCC
TATGCTGTCGGGGTCATATCTAAAAAAGGTCATCGTGCAGACCAACGTCATGGAGATTTTCCC
TGTGTTTCCAGTAGTTTTACAGTTTTGGGTCTTACATATAAGTTTGTTTTCTTTTTTTTCGAGA
TGGAATCTTGCTCTGCGG

FIGURE 561

AAAAAAAAAAAAAAAAAGGGCGGCCGCGACTCTAGAGTCGACCTGCAGGGTTTTTATCCAAAAT
GAAATGGTTGGGCACCAAAGAGACAGAAACCCACAAGTCAACCACTTAGGTCACACATGGTTC
TGAAAGTCCTATACTGTTCTGGATTCCCAGGCACAGAACTCCGGGCTGCTCAGGAAGAGACTA
TGATTCTTCCACCTGCCAGCTACTATTGGCCATCCCTTCTCATTGCTTCTAGCTCCAGCCTTC
TCATCCCAATTCTCTATTCTACATTGTTATTTCTAACCCATTGTGTGCTGGGAAATCAAACCA
CTCAGCA

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FIGURE 562

CCCACGCGTCCGNTGGTGGCTTCAGAAGAAATTCTCAACACCTAGCTCGCCAGAGAGTCTATG
TATGGGATTGAACAATCTGTAAACTAAAGGATCCTAATCATGAAAATAAGTATGATAAATTAT
AAGTCACTATTGGCACTGTTGTTTATATTAGCCTCCTGGATCATTTTTACAGTTTTCCAGAAC
TCCACAAAGGTTTGGTNTGCTCTAAACTTATCCATCTCCCTCCATTANTGGAACAACCTCCACA
AAGTCCTTATTCCCTAAAACACC

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